# HCD-LV100AV

# SERVICE MANUAL

*E Model*

- HCD-LV100AV is the Amplifier, CD player, Tape Deck and Tuner section in LBT-LV100AV.

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| | | |
|---|---|---|
| CD Section | Model Name Using Similar Mechanism | HCD-VR90AV |
| | CD Mechanism Type | CDM37L-5BD34L |
| | Base Unit Name | BU-5BD34L |
| | Optical Pick-up Name | KSS-213D/Q-NP |
| Tape deck Section | Model Name Using Similar Mechanism | NEW |
| | Tape Transport Mechanism Type | TCM-230PWR12 |

## SPECIFICATIONS

### Amplifier section

**Front Speaker:**
The following measured at AC 120 / 220 / 240 V, 50Hz
DIN power output (Rated)
150 + 150 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

**Center Speaker:**
DIN power output (Rated)
35 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
50 watts
(8 ohms at 1 kHz, 10% THD)

**Rear Speaker:**
DIN power output (Rated)
35 + 35 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
50 + 50 watts
(8 ohms at 1 kHz, 10% THD)

Inputs
PHONO IN (phono jacks): sensitivity 3 mV, impedance 47 kilohms
MIC 1 / 2 (phone jack): sensitivity 1 mV, impedance 10 kilohms
VIDEO1 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
VIDEO2 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
MD IN (phono jacks): sensitivity 450 mV, impedance 47 kilohms

DVD INPUT
FRONT, REAR, CENTER, WOOFER (phono jacks): sensitivity 450 mV, impedance 47 kilohms

Outputs
PHONES (stereo phone jack): accepts headphones of 8 ohms or more
VIDEO OUT (phono jack): voltage 250 mV, impedance 1 kilohm
MD OUT (phono jacks): voltage 250 mV, impedance 1 kilohm
WOOFER OUT (phono jack): voltage 1 V, impedance 1 kilohm
FRONT SPEAKER: accepts impedance of 6 to 16 ohms
CENTER SPEAKER: accepts impedance of 8 to 16 ohms
REAR SPEAKER: accepts impedance of 8 to 16 ohms

### Video section

Inputs
VIDEO1 IN (phono jacks): 1 V p-p, 75 ohms
VIDEO2 IN (phono jacks): 1 V p-p, 75 ohms

Outputs
VIDEO OUT (phono jack): 1 V p-p, 75 ohms
S-VIDEO OUT (4-pin / mini-DIN jack):
Y: 1V p-p, unbalanced, Sync negative,
C: 0.286 V p-p, load impedance 75 ohms

### VIDEO CD/CD player section

| | |
|---|---|
| System | Compact disc and digital audio system |
| Laser | Semiconductor laser ( = 780 nm) Emission duration: continuous |
| Laser output | Max. 44.6 W* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture. |
| Wavelength | 780 – 790 nm |
| Frequency response | 2 Hz – 20 kHz (±0.5 dB) |
| Signal-to-noise ratio | More than 90 dB |
| Dynamic range | More than 90 dB |
| Video color system format | NTSC, PAL |

— Continued on next page —

## COMPACT Hi-Fi STEREO SYSTEM

SONY®

CD DIGITAL OUT
(square optical connector jack, rear panel)
Wave length: 660 nm
Output level: –18 dBm

### Tape player section

Recording system 4-track 2-channel stereo
Frequency response (DOLBY NR OFF)
40 – 13,000 Hz (±3 dB), using a Sony TYPE I cassette
40 – 14,000 Hz (±3 dB), using a Sony TYPE II cassette

### Tuner section

FM stereo, FM / AM superheterodyne tuner

**FM tuner section**

Tuning range 87.5 – 108.0 MHz (50 kHz step)
Antenna FM wire antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

**AM tuner section**

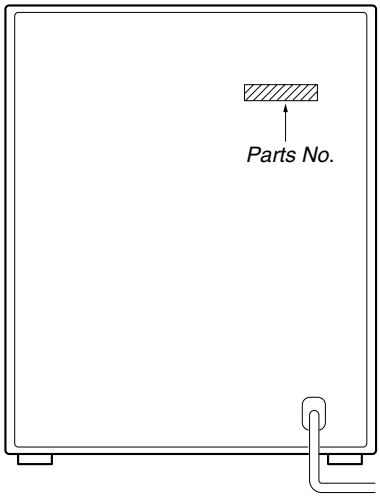
Tuning range
Middle Eastern model: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
530 – 1,710 kHz (with the tuning interval set at 10 kHz)
Antenna AM loop antenna, External antenna terminals
Intermediate frequency 450 kHz

### General

Power requirements 120 V, 220 V, or 230 – 240 V AC, 50 / 60 Hz
Adjustable with voltage selector
Power consumption 230 watts
Dimensions (w / h / d) Approx. 356 × 423 × 446 mm incl. projecting parts and controls
Mass Approx. 15.7 kg
Supplied accessories AM loop antenna (1)
FM wire antenna (1)
Speaker cords (2)
Remote (1)
R6 (size AA) batteries (2)

Design and specifications are subject to change without notice.

### MODEL IDENTIFICATION — BACK PANEL —




| PARTS No. | MODEL |
|---|---|
| 4-227-751-4☐ | MY, SP |
| 4-227-751-5☐ | EA |
| 4-227-751-7☐ | IA |

- Abbreviation
  EA : Saudi Arabia model.
  SP : Singapore model.
  MY : Malaysia model.
  IA : Indonesian model.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270˚C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

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This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

#### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

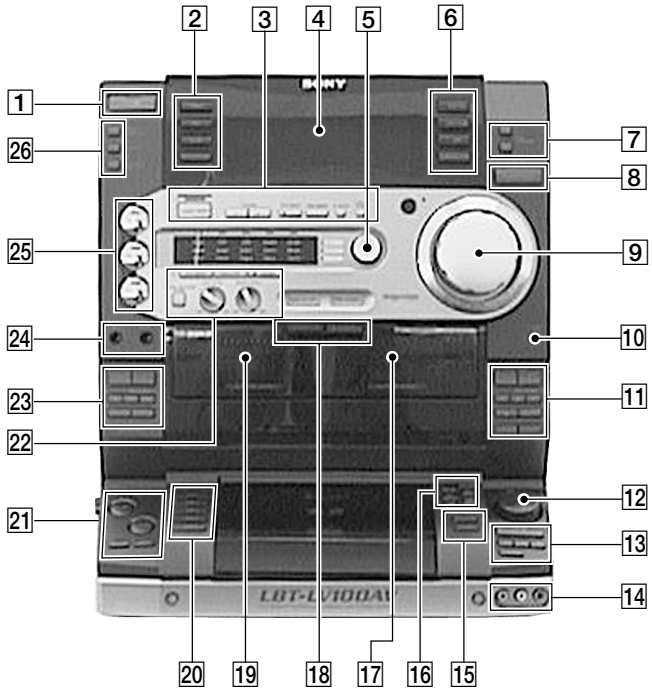
#### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

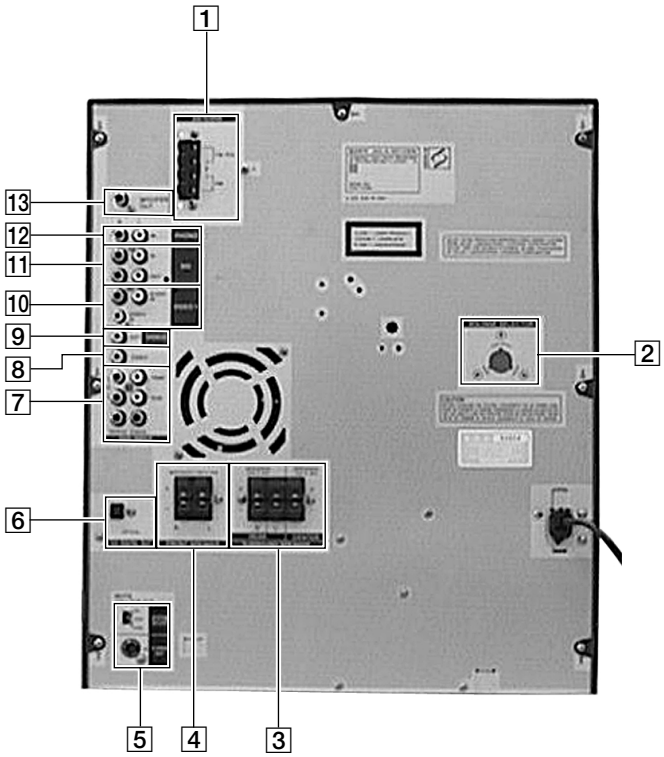
# SECTION 1
# GENERAL

## LOCATION OF CONTROLS
### – Front Panel –




1 I/⏻ (POWER) button
2 DAILY button
REC button
SLEEP button
◴/CLOCK SET button
3 TUNER/BAND button
TUNING +/– button
ENTER/NEXT button
TUNER MEMORY button
STEREO/MONO button
TUNING MODE button
PTY button
4 Display
5 ▲/►/▼/◄ button
6 SYNC EQ button
SYNC BASS button
SURROUND button
MIX GUITAR/KARAOKE button
7 KEY CONTROL ♯/♭ button
8 FUNCTION button
9 VOLUME control
10 PHONES jack
11 DECK B operating button
◅ button ▻ button ■ button
◀◀ button ▶▶ button ❚❚ button
● REC button HI SPEED DUB button
CD SYNC button
12 I◀◀ AMS ▶▶I control
13 CD operating button
▻ ❚❚ button ■ button ◀◀ button
▶▶ button DISC SKIP button
14 VIDEO 2 INPUT jack
15 PLAY MODE button
REPEAT button
16 ACTIVE button
SELECT button
RETURN button
PREV button
NEXT button
17 DECK B
18 ⏏ A EJECT
⏏ B EJECT
19 DECK A
20 DISC1-5 button
21 LOOP button
FLASH button
NON-STOP button
EDIT button
22 SUPPER WOOFER MODE button
MIC LEVEL control
GUITAR LEVEL contro
23 DECK A operating button
◅ button ▻ button ■ button
◀◀ button ▶▶ button
DIRECTION button
DOLBY NR button
24 MIC MIX jack
GUITAR jackl
25 EFFECT button
GROOVE button
SUPER WOOFER button
26 POWER SAVE/DEMO (STAND BY) button
DISPLAY button
SPECTRUM ANALYZER button

**– Rear Panel –**

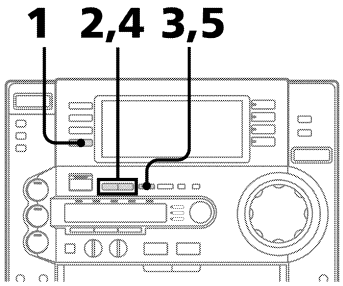



1 ANTENNA terminal
2 VOLTAGE SELECTOR
3 SURROUND SPEAKER terminal
4 FRONT SPEAKER terminal
5 NOTE ONLY FOR VCD
SYSTEM SELECT switch
S VIDEO OUT terminal
6 CD DIGITAL OUT terminal
7 DVD INPUT FRONT jack
DVD INPUT REAR jack
DVD INPUT WOOFER jack
DVD INPUT CENTER jack
8 DVD INPUT VIDEL jack
9 VIDEO OUT jack
10 VIDEO 1 jack
11 MD IN/OUT jack
12 PHONO IN jack
13 WOOFER OUT jack

This section is extracted from instruction manual.

# Step 3: Setting the time

You must set the time before using the timer functions.




**1** Press ⏲/CLOCK SET.
The hour indication flashes.

**2** Press TUNING +/– to set the hour.

**3** Press ENTER/NEXT.
The minutes indication flashes.

**4** Press TUNING +/– to set the minutes.

**5** Press ENTER/NEXT.
The clock starts.

### Tip

If you make a mistake, start over from step 1.

### To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

**1** Press ⏲/CLOCK SET.
**2** Press TUNING +/– to select SET CLOCK.
**3** Press ENTER/NEXT.
**4** Perform steps 2 through 5 in the previous explanation.

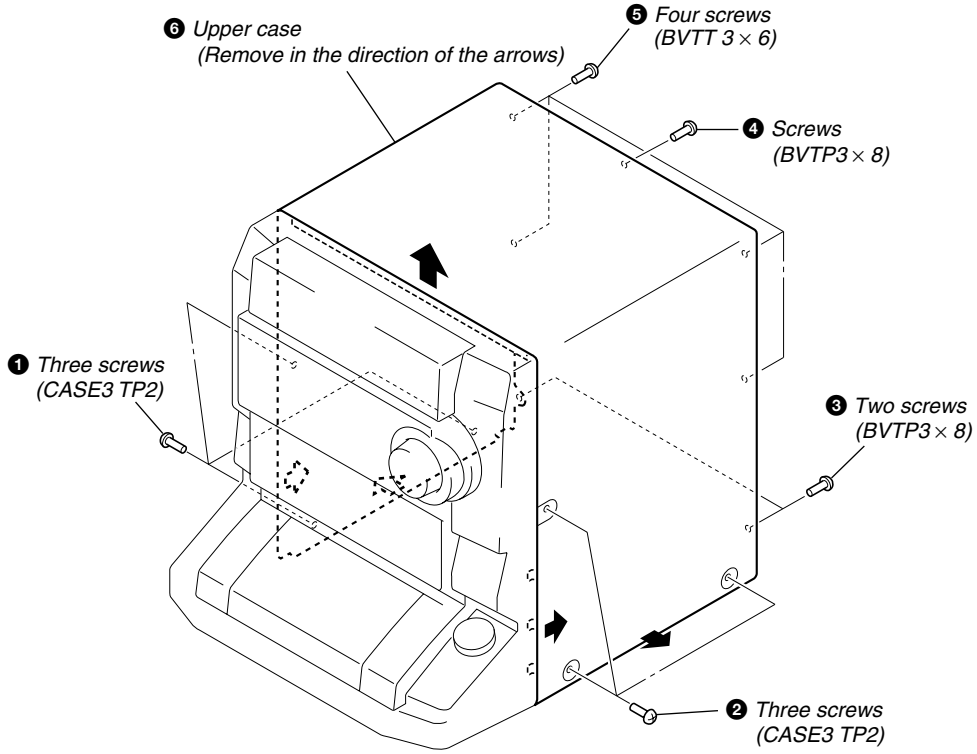
### Note

The clock setting is canceled when you disconnect the power cord or if a power failure occurs.

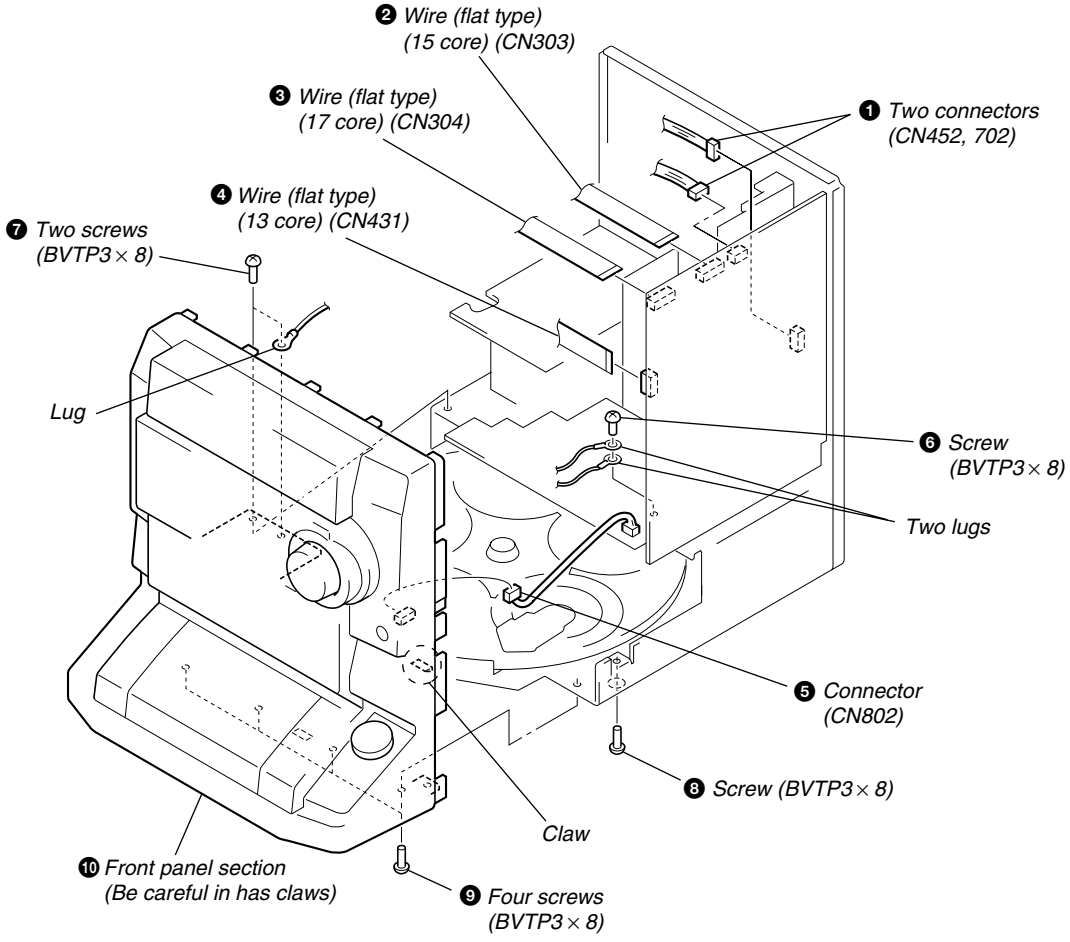
# SECTION 2
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

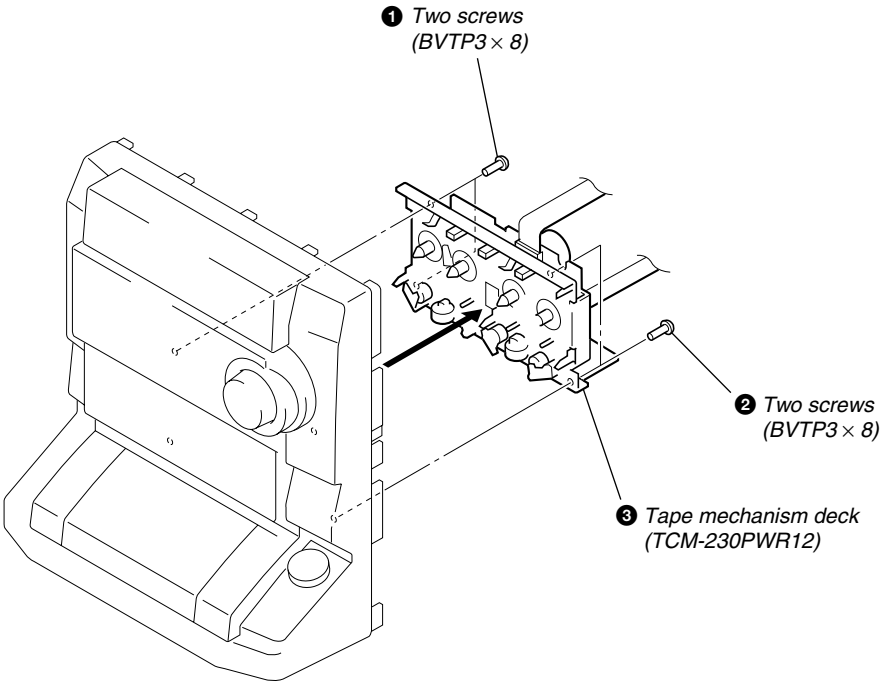
### 3-1. UPPER CASE



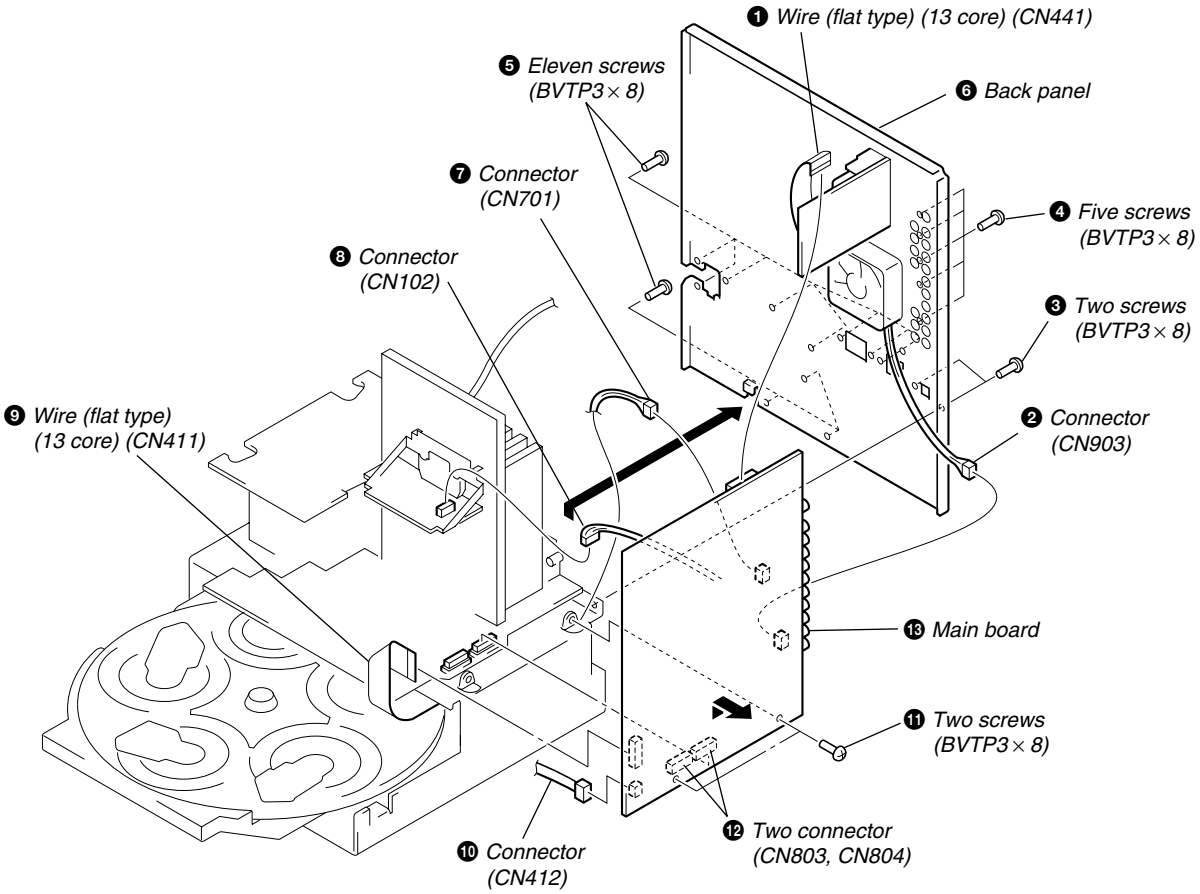

### 3-2. FRONT PANEL SECTION



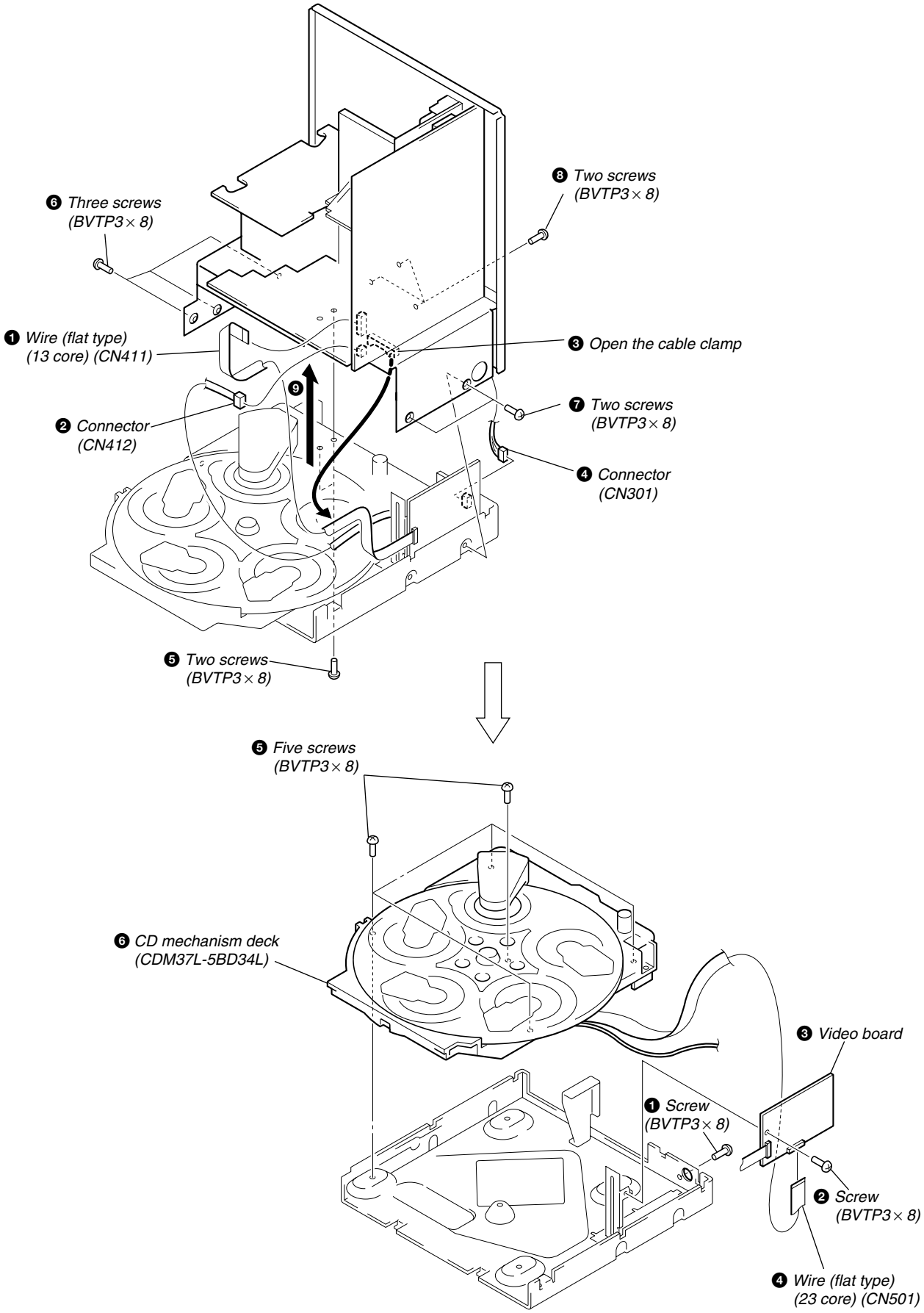
### 3-3. TAPE MECHANISM DECK (TCM-230PWR12)



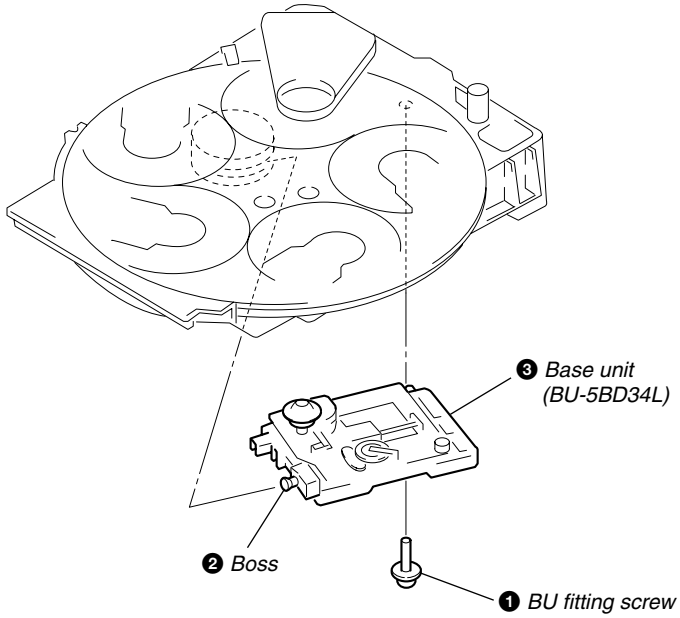

### 3-4. MAIN BOARD



### 3-5. CD MECHANISM DECK (CDM37L-5BD34L)

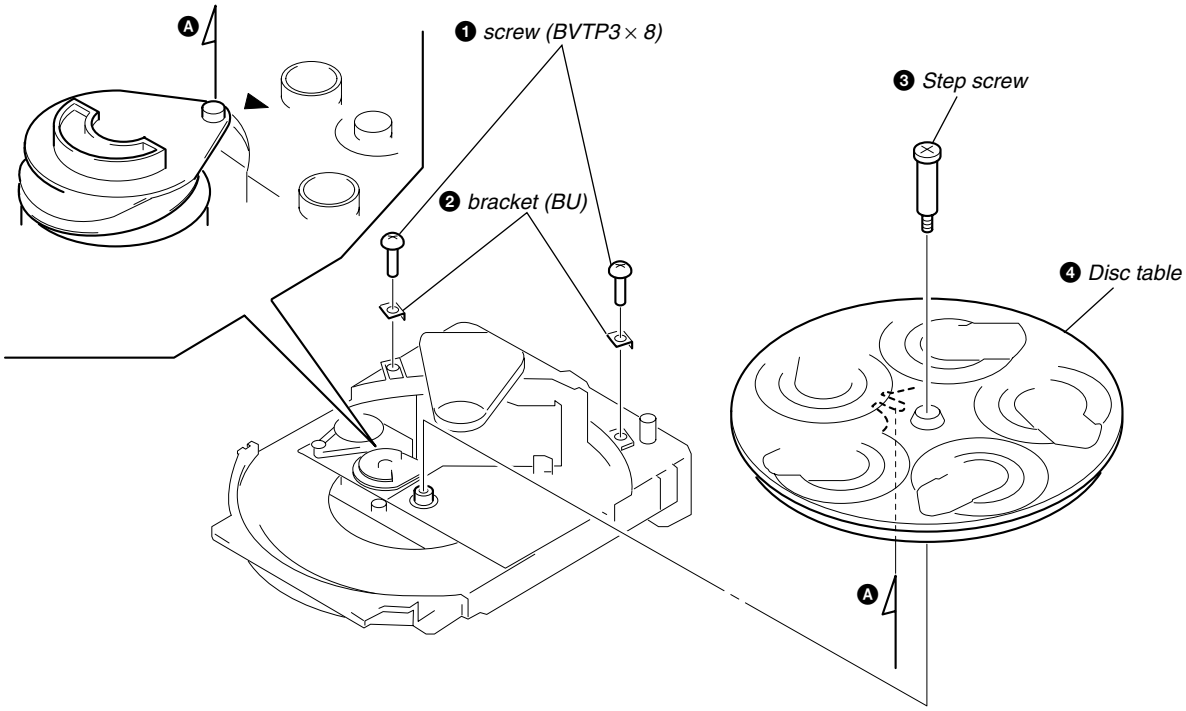

❻ Three screws (BVTP3× 8)
❽ Two screws (BVTP3× 8)
❶ Wire (flat type) (13 core) (CN411)
❸ Open the cable clamp
❾
❷ Connector (CN412)
❼ Two screws (BVTP3× 8)
❹ Connector (CN301)
❺ Two screws (BVTP3× 8)
❺ Five screws (BVTP3× 8)
❻ CD mechanism deck (CDM37L-5BD34L)
❸ Video board
❶ Screw (BVTP3× 8)
❷ Screw (BVTP3× 8)
❹ Wire (flat type) (23 core) (CN501)

### 3-6. BASE UNIT (BU-5BD34L)




### 3-7. DISC TABLE

***Note:*** *When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.*



# SECTION 3
# SERVICE MODE

### MC Cold Reset

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

**Procedure:**

1. Press three buttons [⏲/CLOCK SET], [ENTER], and [I/⏻] simultaneously.
2. "COLD RESET" is displayed on the fluorescent display tube and reset is executed.

### CD Delivery Mode

• This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

**Procedure:**

1. Press [I/⏻] button to turn the set ON.
2. Press [LOOP] button and [I/⏻] button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

### MC Hot Reset

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

**Procedure:**

1. Press three buttons [⏲/CLOCK SET], [ENTER], and [DISC 1] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

### Sled Servo Mode

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

**Procedure:**

1. Press [I/⏻] button to turn the set ON.
2. Press three buttons [⏲/CLOCK SET], [ENTER], and [DISC 5] simultaneously.
3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
4. With the CD in stop status, When the [▶▶] botton is pressed, the optical pick-up moves outside. When [◀◀] botton is pressed, it moves inside.
5. To exit from this mode, perform as follows:
   1) Move the pick-up to the most inside track.
   2) Execute MC cold reset. (Press the three buttons [⏲/CLOCK SET], [ENTER], and [I/⏻] button simultaneously.)

**Note:**

• Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
• Do not run the sled motor excessively, otherwise the gear can be chipped.

### Change-over of AM Tuner Step between 9kHz and 10kHz (DR8AV Only)

• A step of AM channels can be changed over between 9kHz and 10kHz.

**Procedure:**

1. Press [I/⏻] button to turn the set ON.
2. Select the function "TUNER", and press [TUNER/BAND] button to select the BAND "AM".
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

### LED and Fluorescent Indicator Tube All Lit, Key Check Mode

**Procedure:**

1. Press three buttons [⏲/CLOCK SET], [ENTER], and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
   Press [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K @ V0 J0". Each time a button is pressed, "K"value increases. However, once a button is pressed, it is no longer taken into account.
   "J" Value increases like 1, 2, 3 ... if rotating [⏮◀◀ AMS ▶▶⏭] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
   "V" Value increases like 1, 2, 3 ... if rotating [VOLUME] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

### AMS Test Mode

• This mode is used for checking the AMS operations of the tape deck.

JIG
7-819-039-12 Alignment tape, AMS-110A

**Procedure:**

1. Press the I/⏻ button to turn the set ON.
2. Set the tape (AMS-110A).
3. Press the three buttons ⏲/CLOCK SET , ENTER , and DISC 3 button simultaneously.
4. "TEST MODE" is displayed on the fluorescent display tube.
5. Press the FUNCTION button and switch the function to the deck with the tape (AMS-110A).
6. Press the CD SYNCHRO button. "AMS CHECK" is displayed on the fluorescent display tube and the tape is rewound.
7. AMS starts in the normal direction. If the AMS count is 2 at shut down, proceed to step 8.
   "NG" is displayed at other times, and the deck stops.
8. AMS starts in the opposite direction. If the AMS count is 2 at shut down again, "OK" is displayed.
   "NG" is displayed at other times.

### Aging Mode

During the aging mode, both the CD player and tape deck are executed together.

**• If an error occurs:**

Aging stops, and the error state is displayed on the fluorescent display tube.

**• If no error occurs:**

Aging is repeated.

**Procedure:**

1. Press the I/⏻ button to turn the set ON.
2. Load 10 minute tapes with unbent rec-proof tabs in decks A and B.
3. Set CDs on the DISC 1 and DISC 4 tables.
4. Set the CD mode REPEAT to OFF and PLAY MODE to ALL DISCS.
   (Press the PLAY MODE and REPEAT buttons to set these modes.)
5. Press the FUNCTION button to switch the function to "CD".
6. Press the three buttons ⏲/CLOCK SET , ENTER , and DISC 4 button simultaneously.
7. Aging starts.
8. To end aging, press the I/⏻ button to turn the set OFF.

**Aging Sequence:**

Aging is performed in the following sequence.

**• Tape Deck**

1. The tape in deck A is rewound. "TAPE A AG-1" is displayed.
2. The FWD side of deck A is played for two minutes.
   "TAPE A AG-2" is displayed.
3. The tape in deck A is fast forwarded. "TAPE A AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
4. The RVS side of deck A is played for two minutes.
   "TAPE A AG-4" is displayed.
5. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
6. The FWD side of deck B is played for two minutes.
   "TAPE B AG-2" is displayed.
7. The tape in deck B is fast forwarded. "TAPE B AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
8. The RVS side of deck B is played for two minutes.
   "TAPE B AG-4" is displayed.
9. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
10. Repeated from step 2.

**• CD**

1. The tray rotates.
2. DISC 1 is chucked.
3. The TOC is read.
4. The first track is played for 2 seconds.
5. The last track is played for 2 seconds.
6. The tray rotates.
7. DISC 4 is chucked.
8. The TOC is read.
9. The first track is played for 2 seconds.
10. The last track is played for 2 seconds.
11. Repeated from step 1.

• Display when ended abnormally
When the tape deck is abnormal:

The state when ended abnormally is displayed.
The contents of display are the same as that during aging.

**When the CD player is abnormal:**

A message indicating that errors such as “CD MEC ERR” have occurred.
Check the error contents in the following error history display mode.

### Error History Display Mode

Mode which enables the history of error occurring in the CD player to be checked.
Execute this mode after ending the aging mode.

**Procedure:**
1. Press the I/⏻ button to turn the set ON.
2. Press the three buttons 🕘/CLOCK SET , ENTER , and CD SYNCHRO simultaneously.
3. A message such as “EMC@@EDC**” is displayed.
   @@ : Number of mechanical errors (Up to three past errors)
   ** : Number of errors (NO DISC ERROR) which occurs after chucking (Up to three past errors)
4. When checking the history of mechanical errors, press the PLAY MODE button. When checking errors after chucking, press the REPEAT button to switch the display.
5. Press the I/⏻ button to end and turn the set OFF.
6. To erase the error history, perform COLD reset.
   (Press the three buttons 🕘/CLOCK SET , ENTER , and DISC 1 simultaneously.

• Viewing the mechanical error history display
(Switch the history by pressing the PLAY MODE button.)

Display
E@@M#*****

@@ : Error number. 00 is the newest.

# : Operating state of table

0 : Currently in the INITIAL mode
7 : Currently rotating to the right
8 : Currently rotating to the left
A : Currently chucking down
B : Currently chucking up

* : Invalid

• Viewing the NO DISC ERROR history display
(Switch the history by pressing the REPEAT button.)

Display
E@@D##$$%*

@@ : Error number. 00 is the newest

## : Error contents
01: Focus error
02: GFS error
03: Setup error

$$ : Retries
00: NO DISC is determined without attempting chucking retry
02: NO DISC is determined after chucking retry.

% : State when determined as NO DISC
1 : When stopped
2 : At setup
3 : At TOC READ
4 : When accessing
5 : When playing
6 : When pausing
7 : When manual searching (during play)
8 : When manual searching (during pausing)
* : Invalid

**[VIDEO CD Color-bars Mode]**

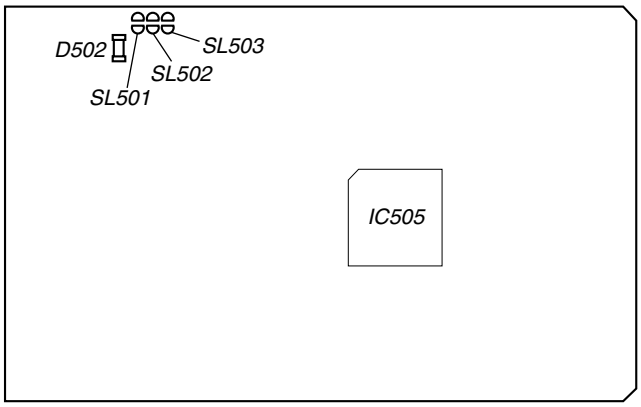
On this mode, the data of the color-bars signal as a picture signal and the 1 kHz sine wave signal as a sound signal are output by the mechanism controller (IC502) for the video CD signal check. When measurement of the voltage and waveform on the VIDEO board, perform it in this mode.

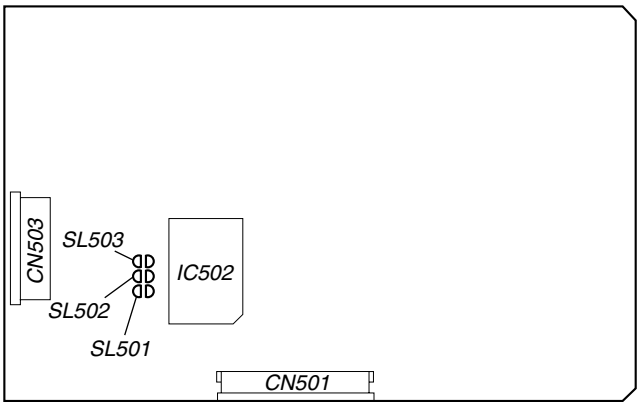
For reference, the color-bars signal can be observed at J302 (VIDEO OUT) and the sound signal can be observed at J101 (VIDEO/MD (AUDIO) OUT) using an oscilloscope.

**Procedure:**

1. Short the both ends of the land of SL503 of the VIDEO board.
2. Turn the power on. Press the FUNCTION button to select CD.
3. The color-bars appears when the CD is in stop status, and it disappears when the CD goes in play status.
4. After measuring, remove the lead wire connected.

**– VIDEO board (Side A) –**



# SECTION 4
# MECHANICAL ADJUSTMENTS

### Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

### Torque Measurement

| Mode | Torque meter | Meter reading |
|---|---|---|
| FWD | CQ-102C | 3.06 N • m to 6.96 N • m<br>31 to 71 g • cm<br>(0.43 – 0.98 oz • inch) |
| FWD<br>back tension | CQ-102C | 0.19 N • m to 0.58 N • m<br>2 to 6 g • cm<br>(0.02 – 0.08 oz • inch) |
| REV | CQ-102RC | 3.06 N • m to 6.96 N • m<br>31 to 71 g • cm<br>(0.43 – 0.98 oz • inch) |
| REV<br>back tension | CQ-102RC | 0.19 N • m to 0.58 N • m<br>2 to 6 g • cm<br>(0.02 – 0.08 oz • inch) |
| FF/REW | CQ-201B | 6.96 N • m to 14.02 N • m<br>71 to 143 g • cm<br>(0.98 – 1.99 oz • inch) |
| FWD tension | CQ-403A | 9.80 N • m<br>100 g or more<br>(3.53 oz or more) |
| REV tension | CQ-403R | 9.80 N • m<br>100 g or more<br>(3.53 oz or more) |

# SECTION 5
# ELECTRICAL ADJUSTMENTS

**DECK SECTION** **0 dB=0.775V**

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

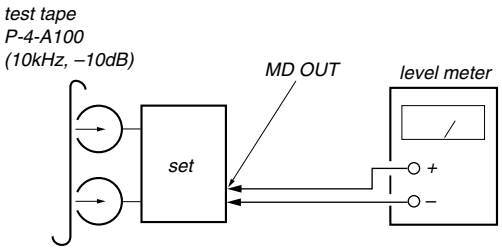
| Tape | Signal | Used for |
|---|---|---|
| P-4-A100 | 10 kHz, –10 dB | Azimuth Adjustment |
| WS-48B | 3 kHz, 0 dB | Tape Speed Adjustment |
| P-4-L300 | 315 Hz, 0 dB | Level Adjustment |

### Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

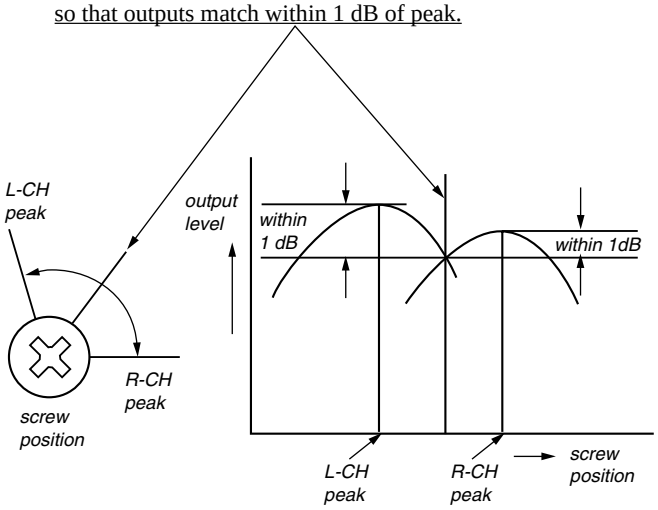
**Note:** Perform this adjustments for both decks.

**Procedure:**

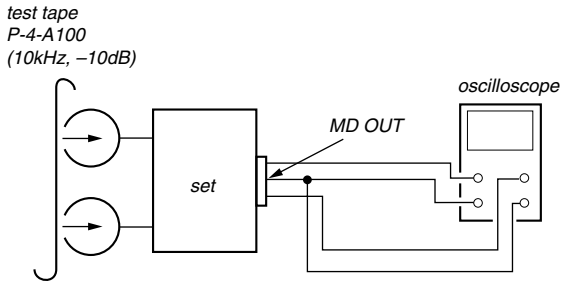
1. Mode : Playback

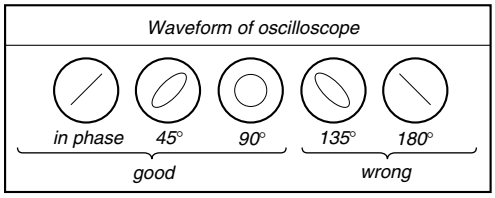



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



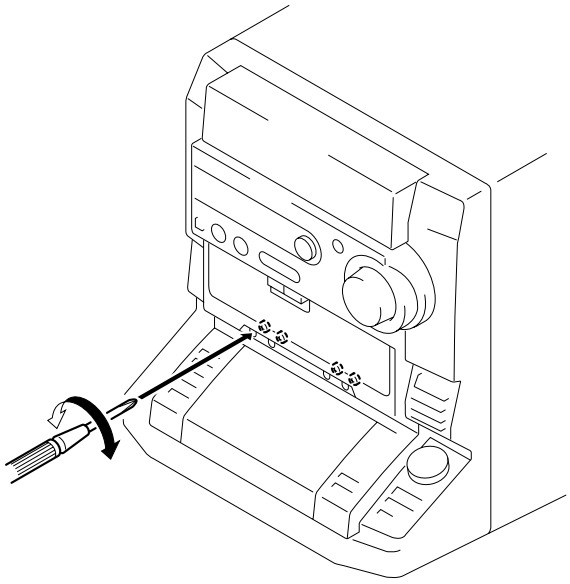
3. Mode: Playback




4. After the adjustments, apply suitable locking compound to the parts adjusted.

**Adjustment Location:** Playback Head (Deck A)
Record/Playback/Erase Head (Deck B)



### Tape Speed Adjustment (Deck A)

**Note:** Set the test mode using the following method and begin tape speed adjustment.
In the test mode, the speed will switch to double speed or normal speed each time the HI-SPEED DUB button is pressed.

**Procedure:**
With the power turned ON, press the ⏲/CLOCK SET button, ENTER button, and DISC 3 button simultaneously.
(The "VOLUME" on the fluorescent display tube will blink while in the test mode.)
To exit the test mode, press the I/⏻ button.

1. Insert the WS-48B into deck B.
2. Press the ▷ button of deck B.
3. Press the HI-SPEED DUB button and play the tape at double speed.
4. Adjust RV1001 of the LEAF SW board so that the reading of the frequency counter becomes 6000 ± 180 Hz.
5. Press the HI-SPEED DUB button and play the tape at normal speed.
6. Adjust RV1002 of the LEAF SW board so that the reading of the frequency counter becomes 3000 ± 90 Hz.

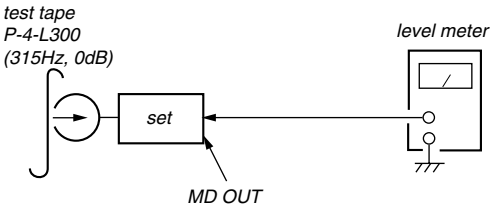
**Adjustment Location:** LEAF SW board

### Sample Value of Wow and flutter

W.RMS (JIS) less than 0.3%
(test tape: WS-48B)

### Playback Level Adjustment (Deck A, Deck B)

**Procedure:**
Mode: Playback

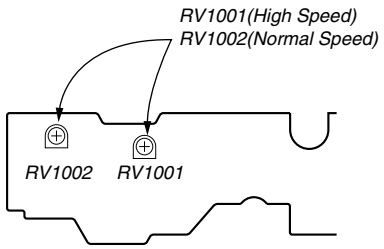



Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)
so that adjustment within the following adjustment level.

**Adjustment level:**
CN301 playback level: 301.5 to 338.3 mV (–8.2 to –7.2 dB)
level difference between the channels: within ± 0.5 dB
**Adjustment Location:** AUDIO board

---

### Adjustment Location [LEAF SW BOARD]

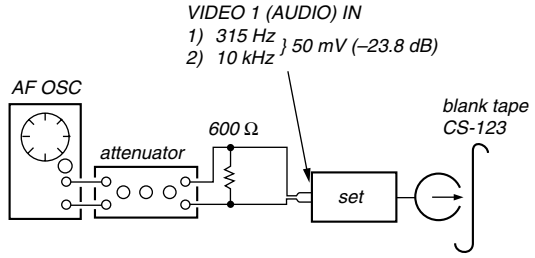


### Record Bias Adjustment (Deck B)

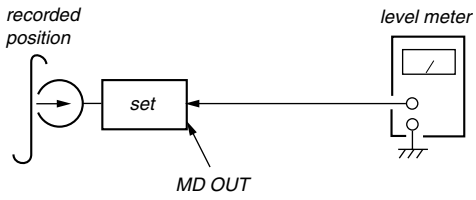
**Procedure:**

**INTRODUCTION**
When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.
(After recording, press the ◀◀ button without stopping will return to the position where recording was started.)

1. Press FUNCTION button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the ● REC button, and then press the ▷ button to start recording.
3. Mode: Record
4. Mode: Playback
5. Confirm playback the signal recorded in step 2 become adjustment level as follows.




If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 3 and 4.




**Adjustment level:** The playback output of 10 kHz level difference against 315 Hz reference should be ± 1.0 dB.

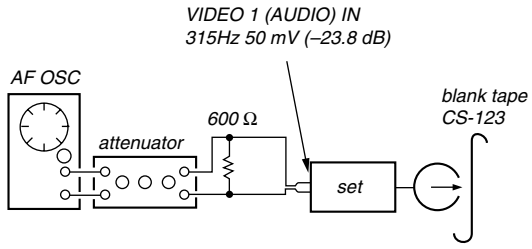
**Adjustment Location:** AUDIO board

### Record Level Adjustment (Deck B)

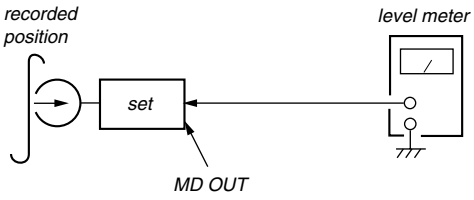
**Procedure:**

**INTRODUCTION**
When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.
(After recording, press the ◀◀ button without stopping will return to the position where recording was started.)

1. Press FUNCTION button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the ● REC button, and then press the ▷ button to start recording.
3. Mode: Record
4. Mode: Playback
5. Confirm playback the signal recorded in step 2 become adjustment level as follows.




If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 3 and 4.

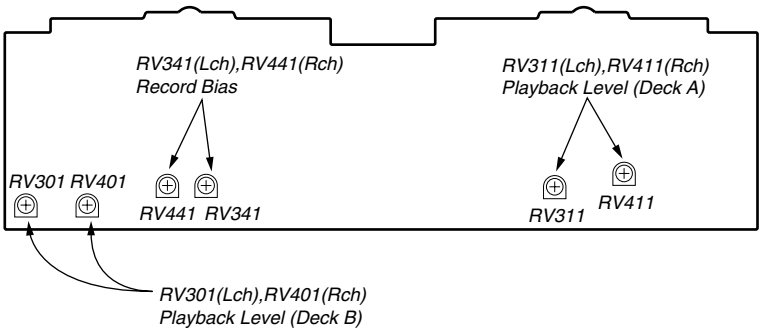



**Adjustment level:**
CN403 playback level: 47.2 to 53.0 mV (–24.3 to –23.3 dB)

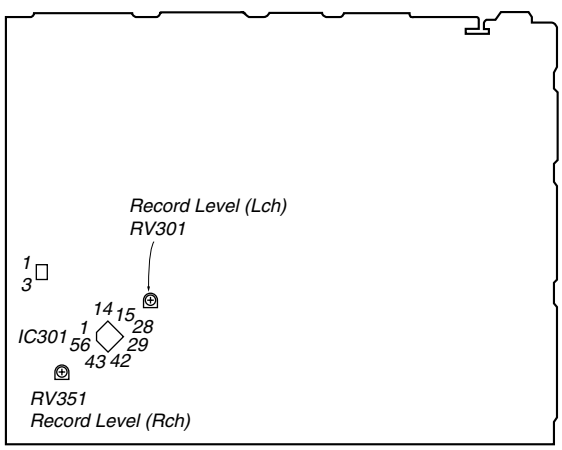
**Adjustment Location:** MAIN board

---

**Adjustment Location:**
**[AUDIO BOARD]** (Conductor Side)




**[MAIN BOARD]** (Conductor Side)

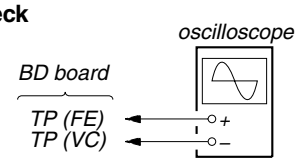


## CD SECTION

**Note:**

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

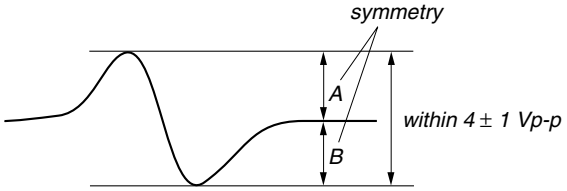
### S-Curve Check




**Procedure:**

1. Connect oscilloscope to TP (FE).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Cofirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 4 ± 1 Vp-p.

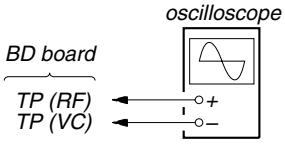
*S-curve waveform*




7. After check, remove the lead wire connected in step 2 and 3.

**Note:** • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

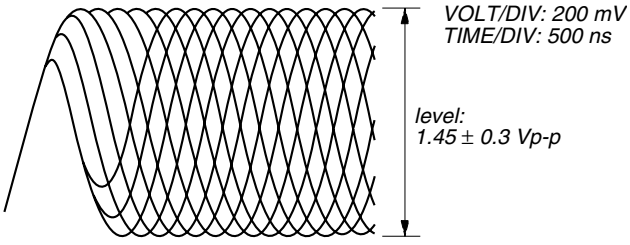
### RF Level Check



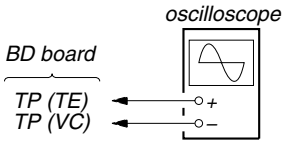

**Procedure:**

1. Connect oscilloscope to TP (RF).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turn the power ON.
4. Load a disc (YEDS-18) and press the ▶II button to play.
5. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

**Note:** Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.



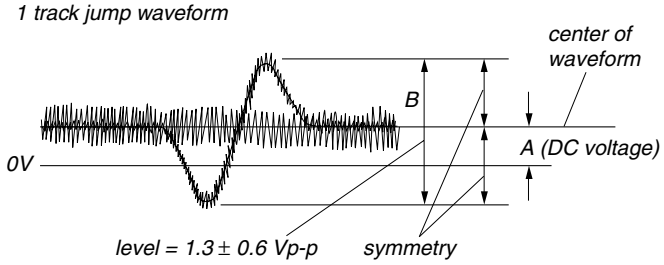

### E-F Balance (1 Track Jump) Check




**Procedure :**

1. Connect oscilloscpe to TP (TE) and TP (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the ▶II (CD) button. (Becomes the 1 track jump mode)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

*1 track jump waveform*

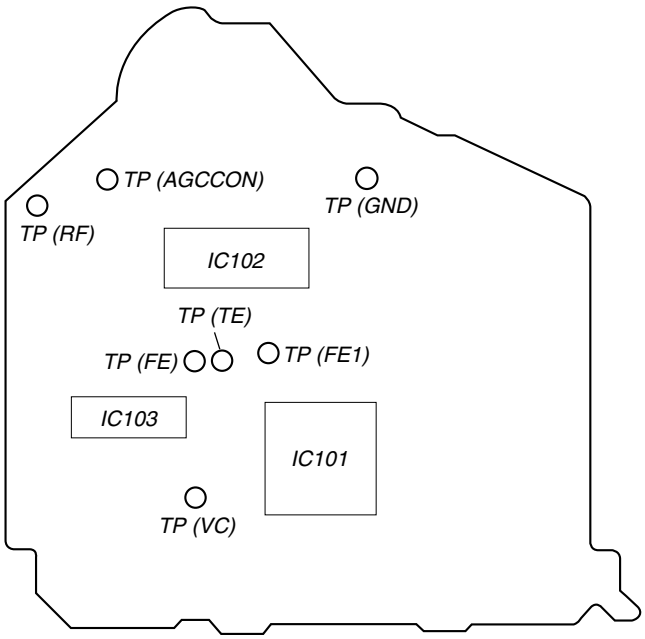



**Specified level:** $\frac{A}{B} \times 100$ = less than ± 22%

6. After check, remove the lead wire connected in step 1.

**Checking Location:**

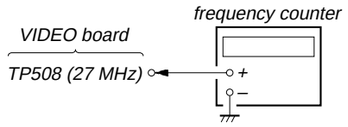
**– BD BOARD (Side B) –**



## VIDEO SECTION

### Frequency Adjustment

**Connection:**

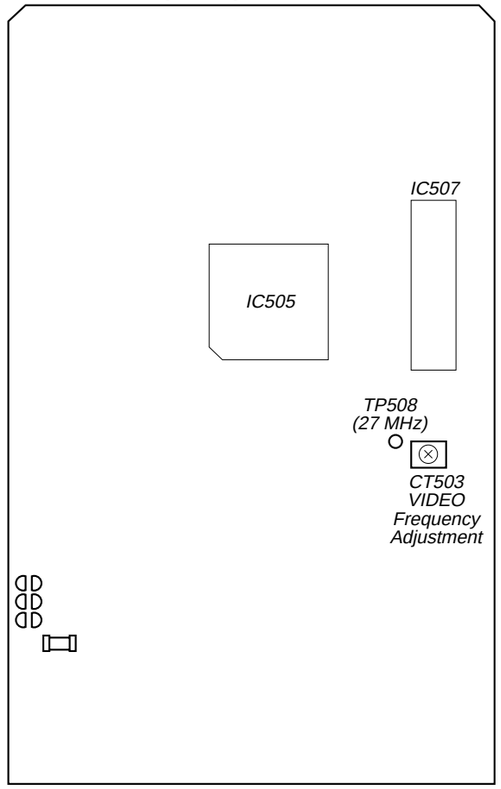



**Procedure:**

1. Connect the frequency counter to TP508 (27 MHz) on VIDEO board.
2. Turned power switch on.
3. Press the FUNCTION button to select the CD.
4. Adjust CT503 on the VIDEO board so that the frequency counter reading 27.0 MHz ± 80 Hz at stop status.

**Adjustment Location:**

**– VIDEO Board (Side A) –**



# SECTION 6
# DIAGRAMS

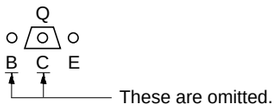
## NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
## (In addition to this, the necessary note is printed in each block)

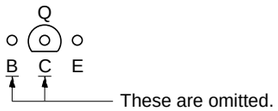
**Note on Printed Wiring Board:**

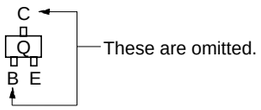
- ○——— : parts extracted from the component side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

| Caution: | |
|---|---|
| Pattern face side: (Side B) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Side A) | Parts on the parts face side seen from the parts face are indicated. |

- Indication of transisitor.



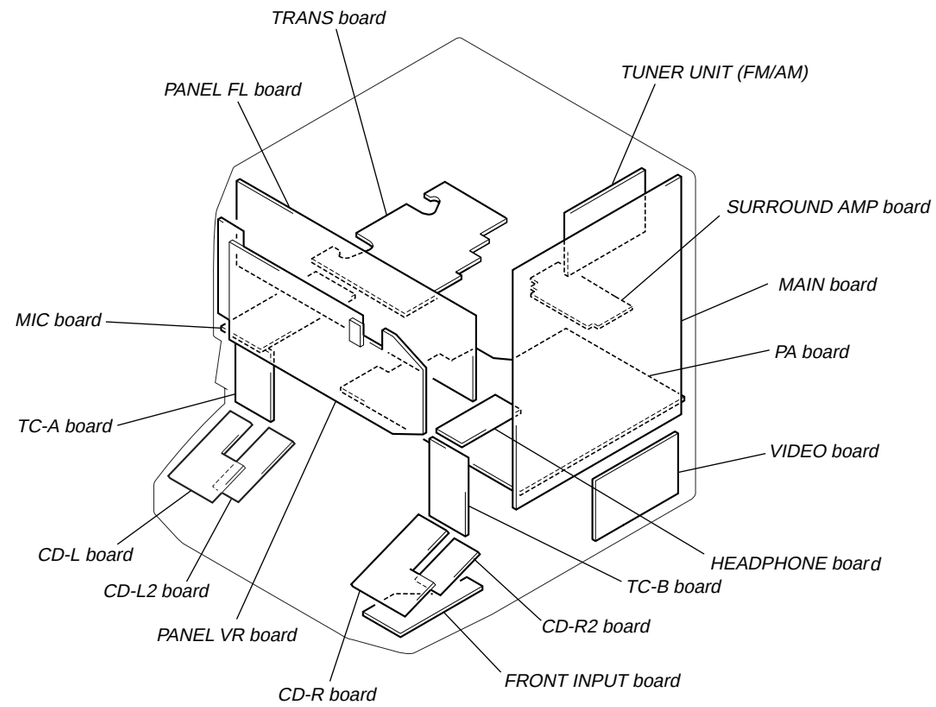

**Note on Schematic Diagram:**

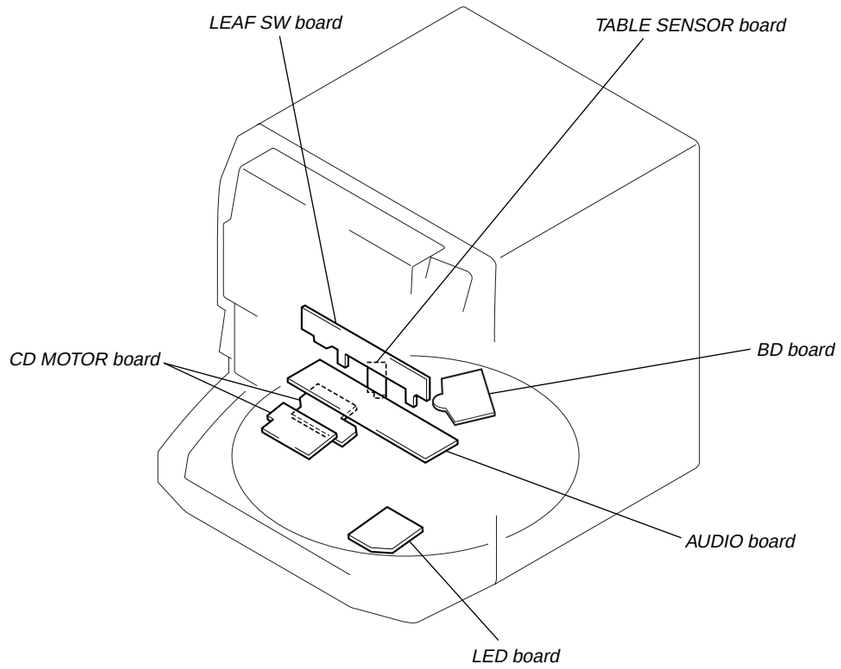
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

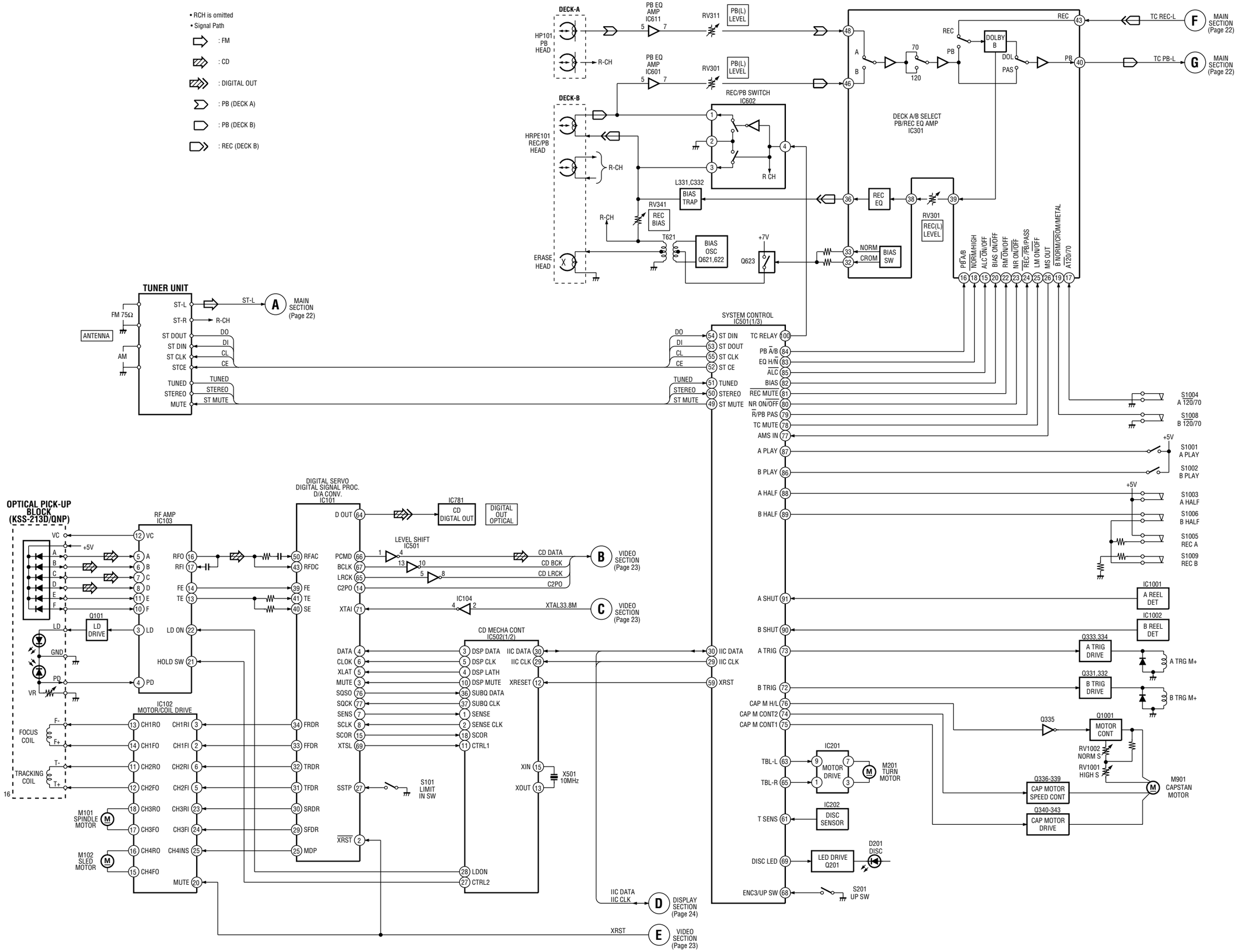
- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : PLAYBACK (DECK A)
  - : PLAYBACK (DECK B)
  - : RECORD
  - : CD PLAY (ANALOG OUT)
  - : CD PLAY (DIGITAL OUT)
  - : MIC INPUT
- Abbreviation
  - EA : Saudi Arabia model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - IA : Indonesian model.

## 6-1. CIRCUIT BOARDS LOCATION

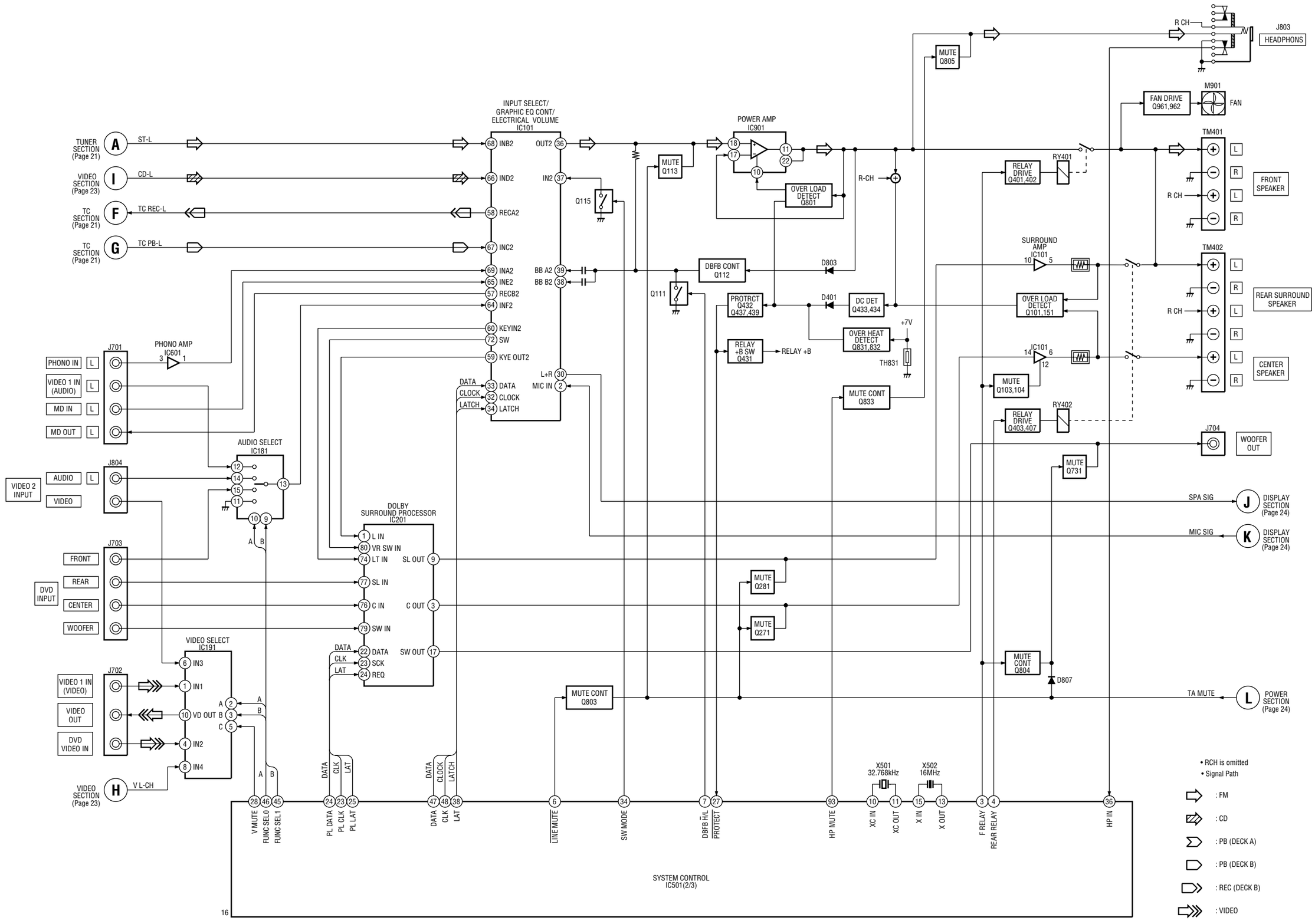


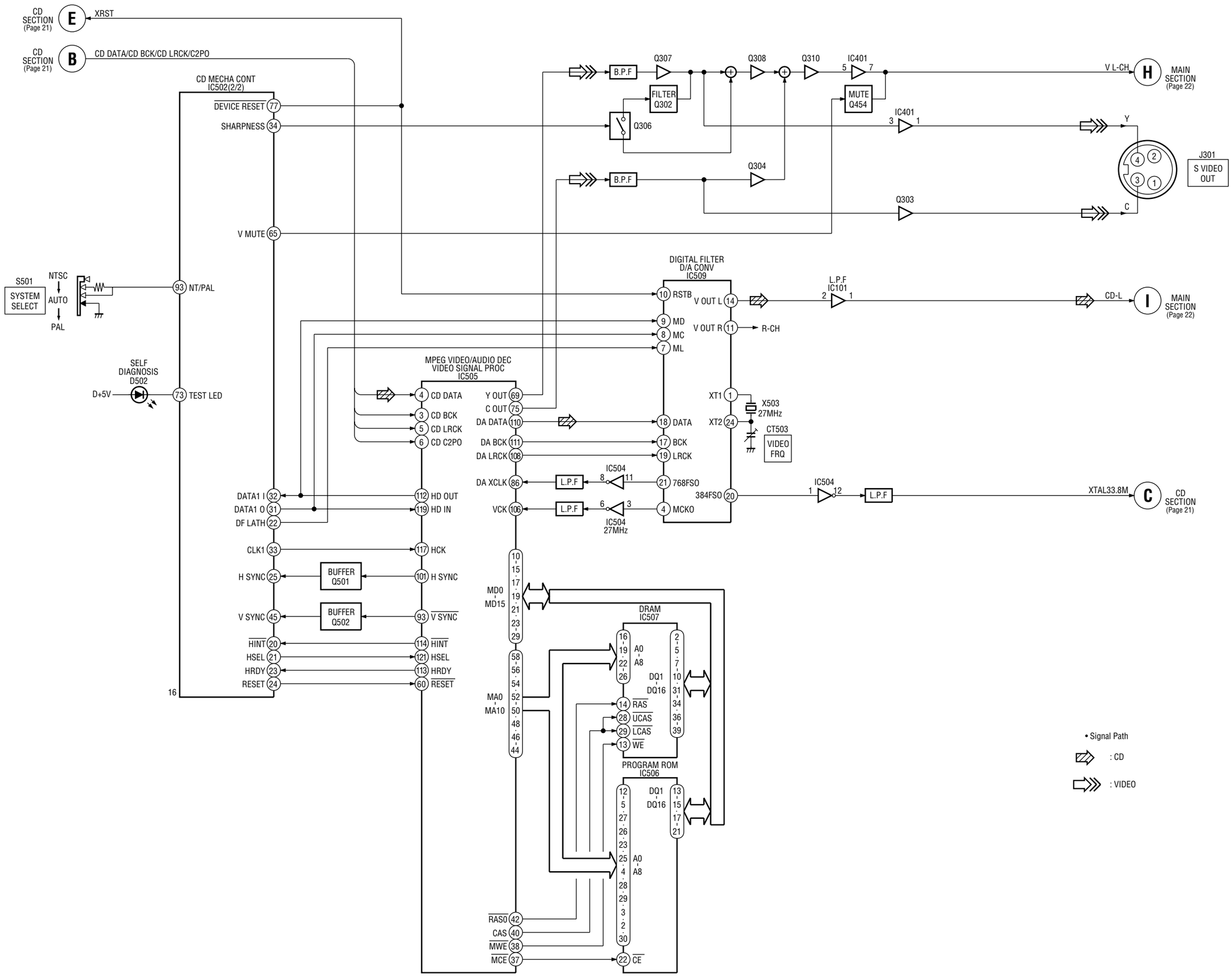
## 6-1. BLOCK DIAGRAMS TUNER/CD/DECK SECION



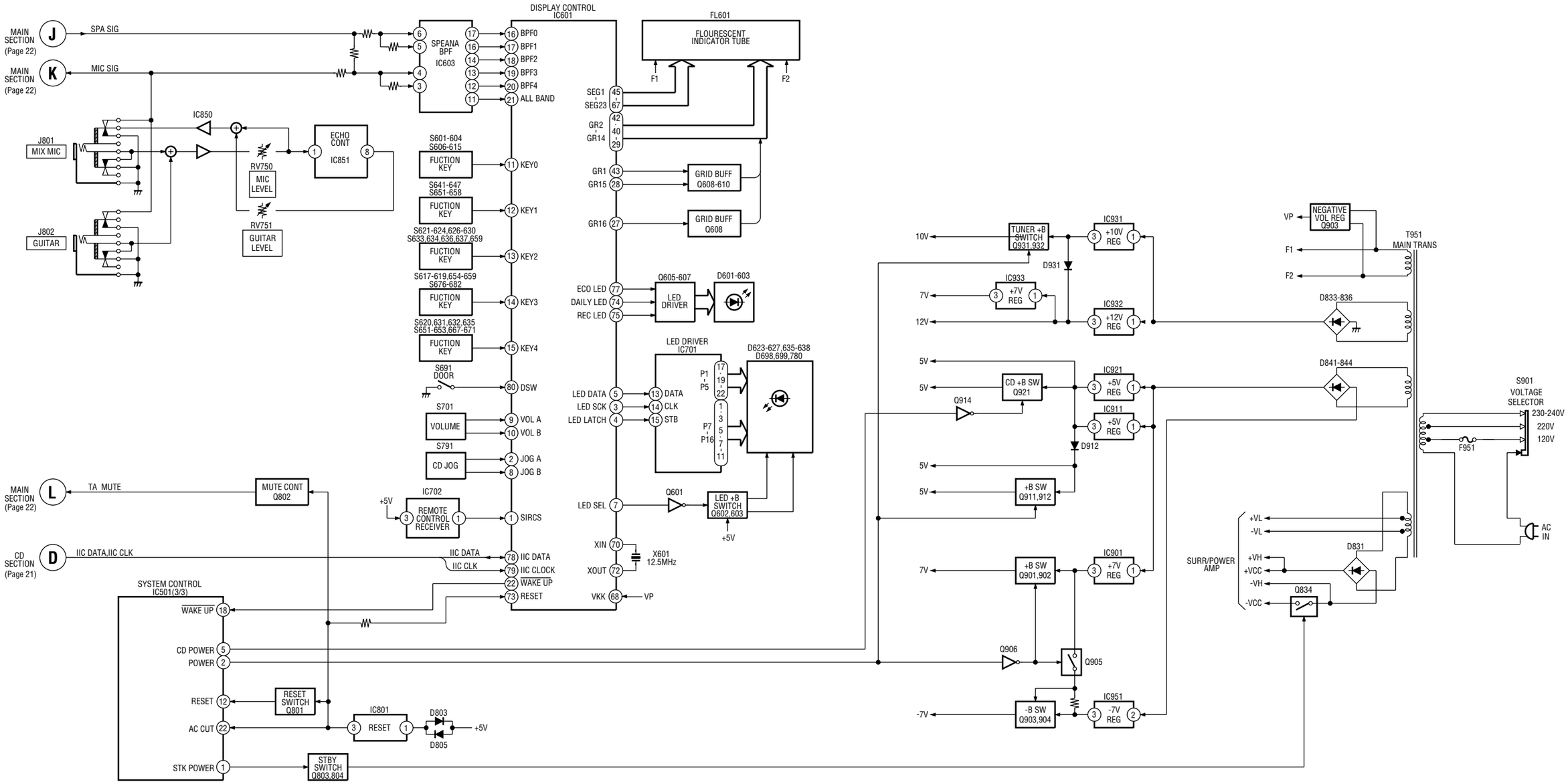
## MAIN SECTION



## VIDEO CD SECTION

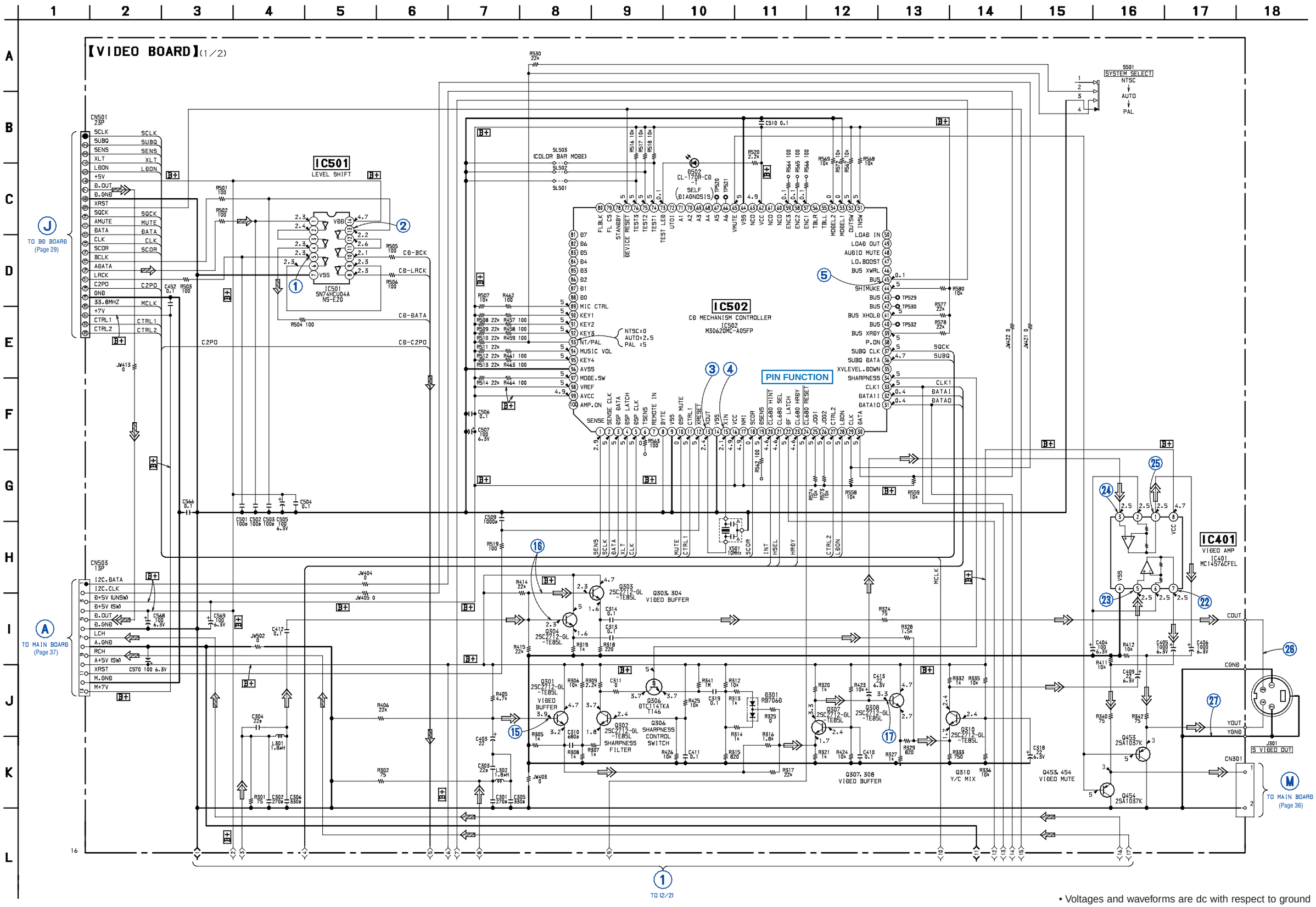


## DISPLAY/POWER SECTION



## 6-3. SCHEMATIC DIAGRAM VIDEO Board (1/2)

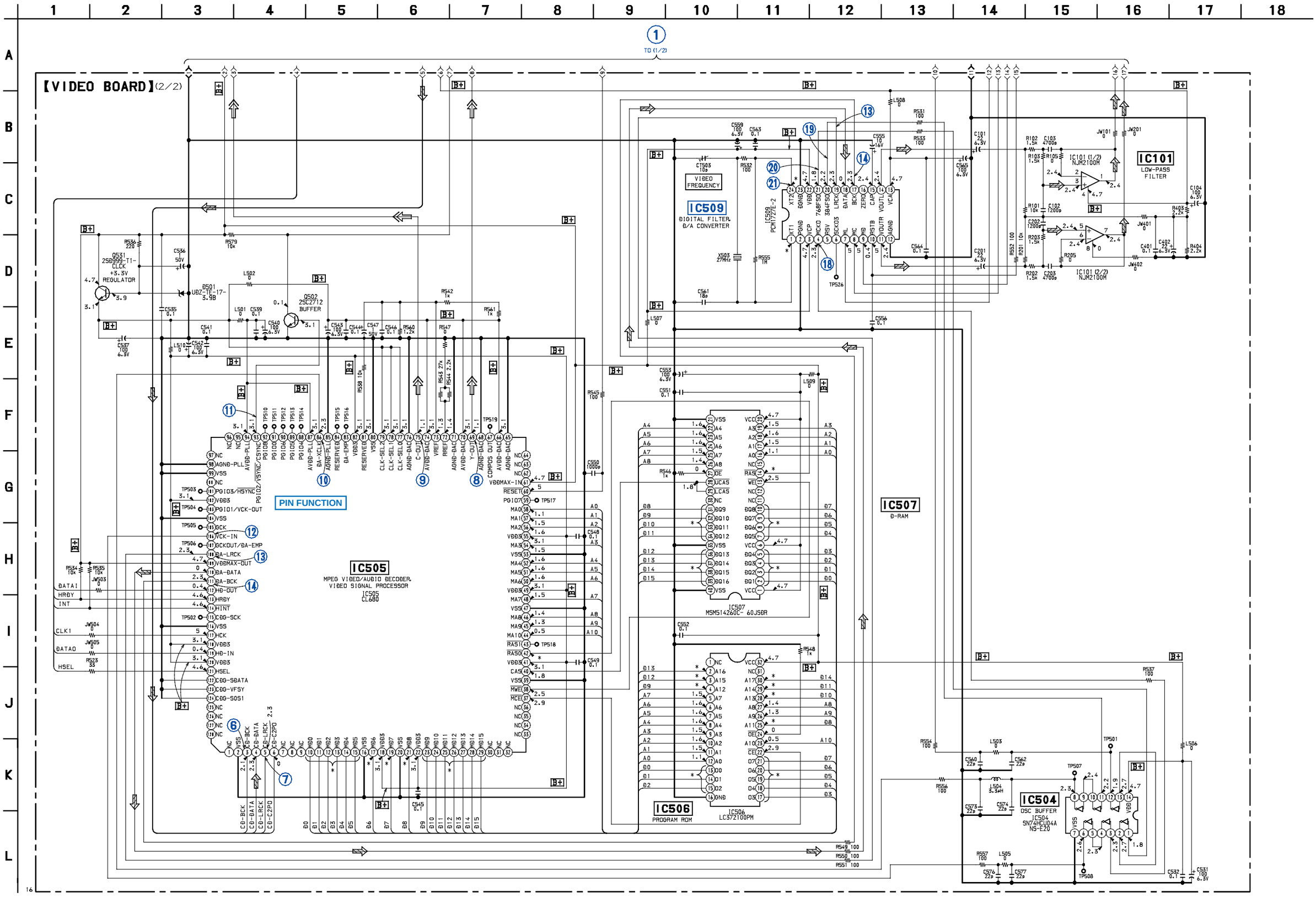
• See page 39 for Waveforms.
• See page 59 for IC Pin Function Description.




• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : VIDEO CD PLAY

## 6-4. SCHEMATIC DIAGRAM VIDEO Board (2/2)

• See page 39 for Waveforms.
• See page 61 for IC Pin Function
• See page 55 for IC Block Diagram.



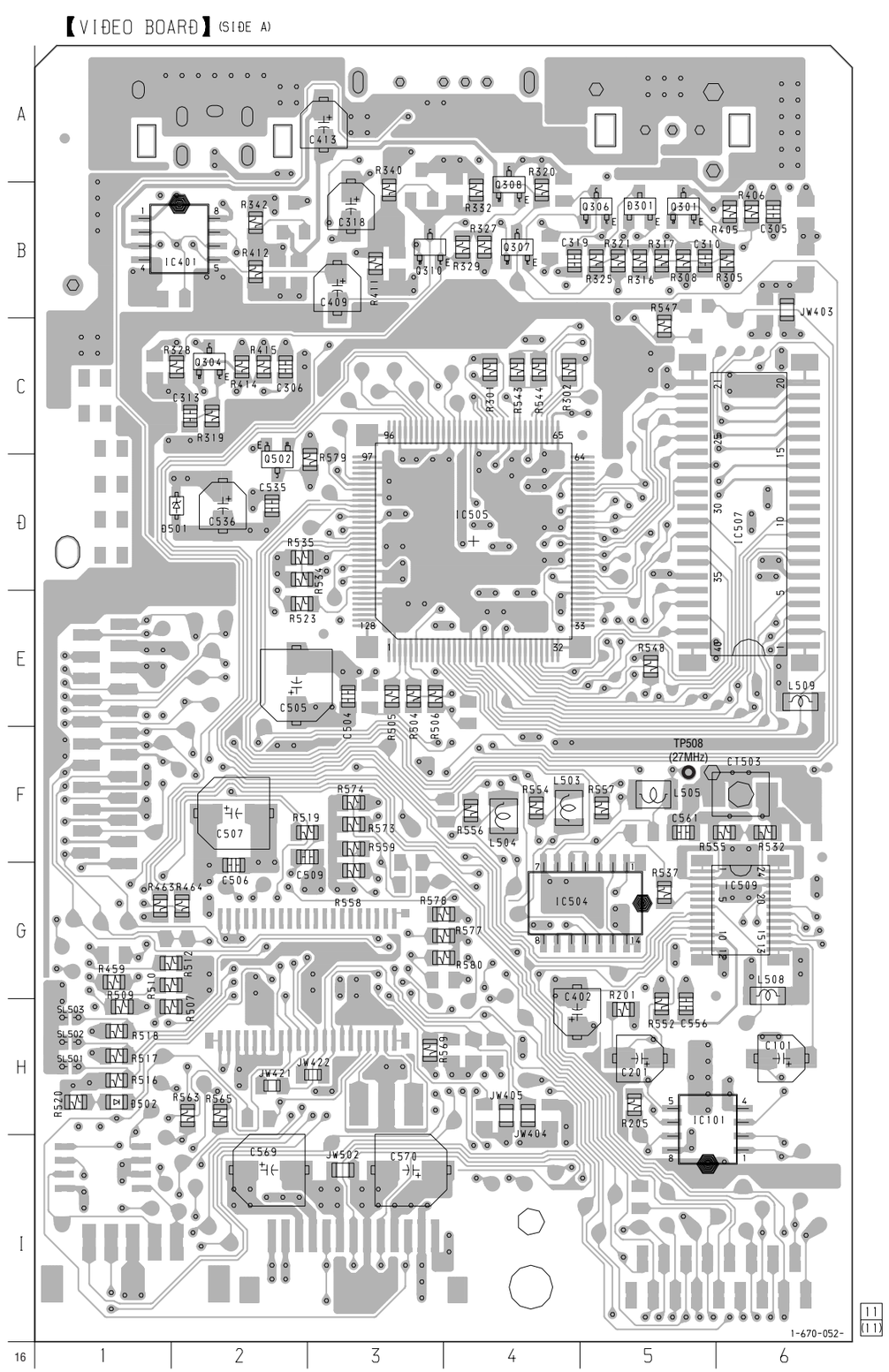

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : VIDEO CD PLAY
* : Impossible to measure

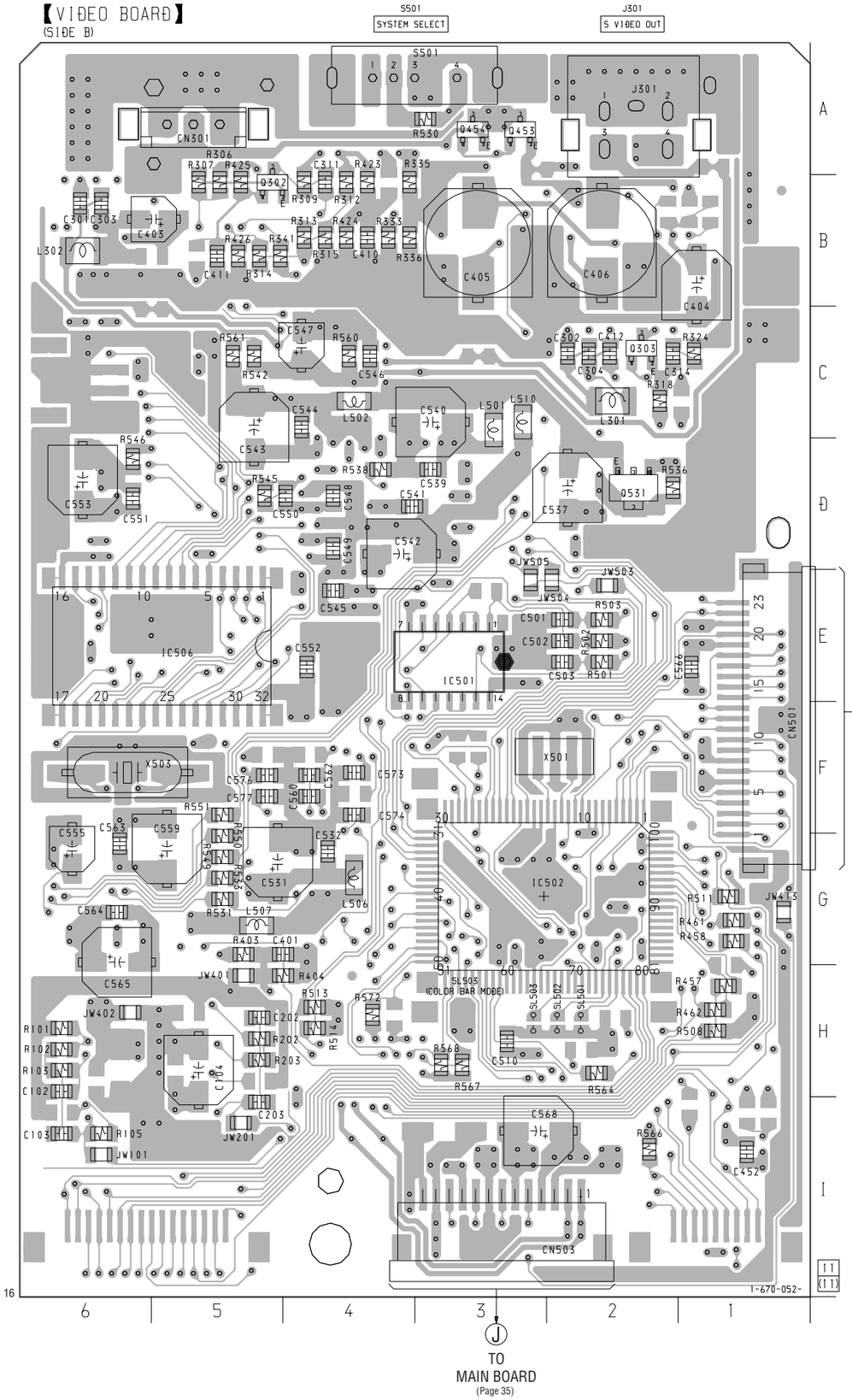
## 6-5. PRINTED WIRING BOARD VIDEO Board

• See page 20 for Circuit Board Location.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D301 | B-5(A) |
| D501 | D-2(A) |
| D502 | H-1(A) |
| | |
| IC101 | H-5(A) |
| IC401 | B-2(A) |
| IC501 | E-3(B) |
| IC502 | G-3(B) |
| IC504 | G-4(A) |
| C505 | D-4(A) |
| IC506 | E-5(B) |
| IC507 | D-5(A) |
| IC509 | G-5(A) |
| | |
| Q301 | B-5(A) |
| Q302 | B-5(B) |
| Q303 | C-2(B) |
| Q304 | C-2(A) |
| Q306 | B-4(A) |
| Q307 | B-4(A) |
| Q308 | B-4(A) |
| Q310 | B-3(A) |
| Q453 | A-3(A) |
| Q454 | A-3(A) |
| Q502 | D-2(A) |
| Q531 | D-2(B) |

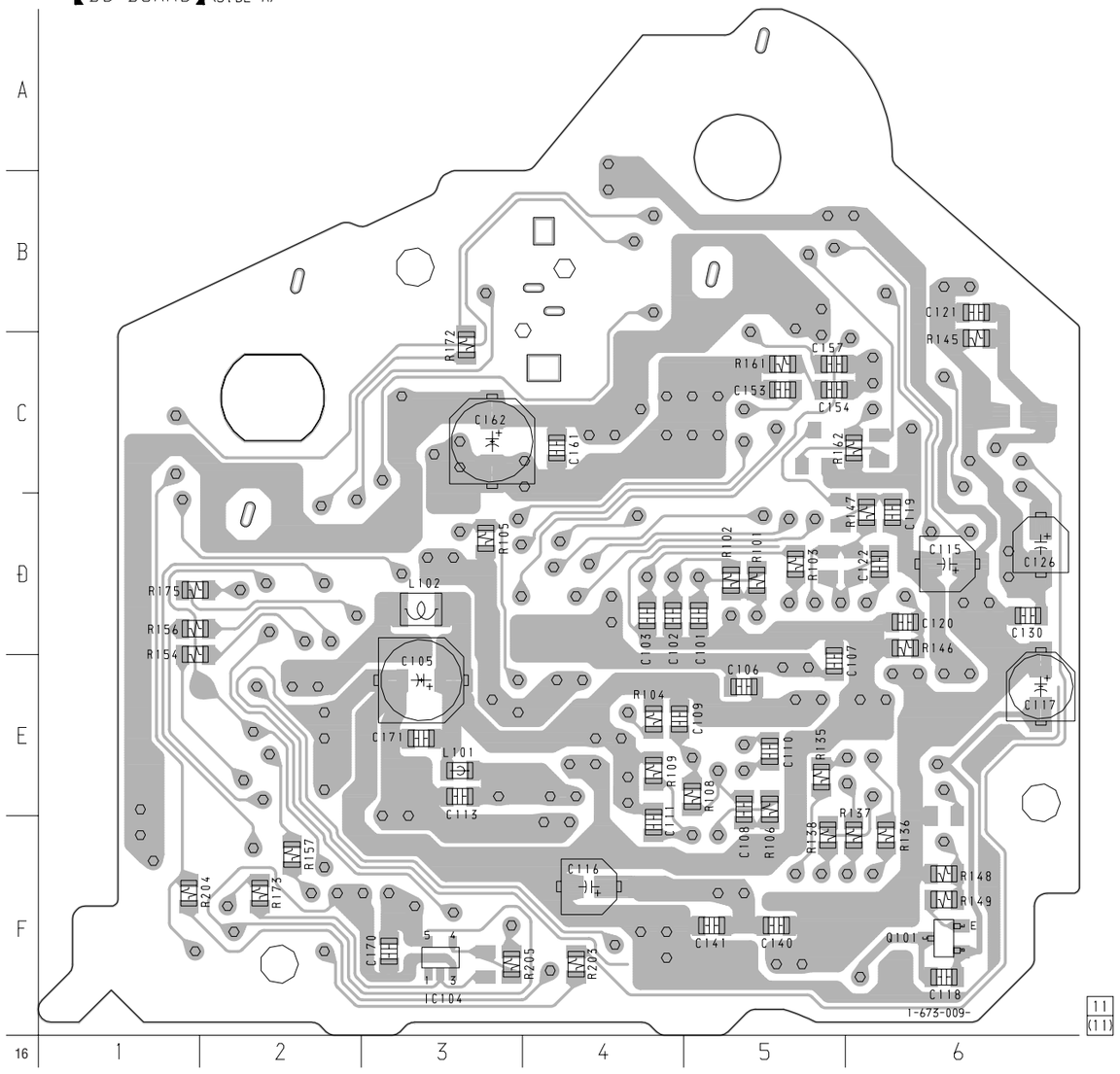


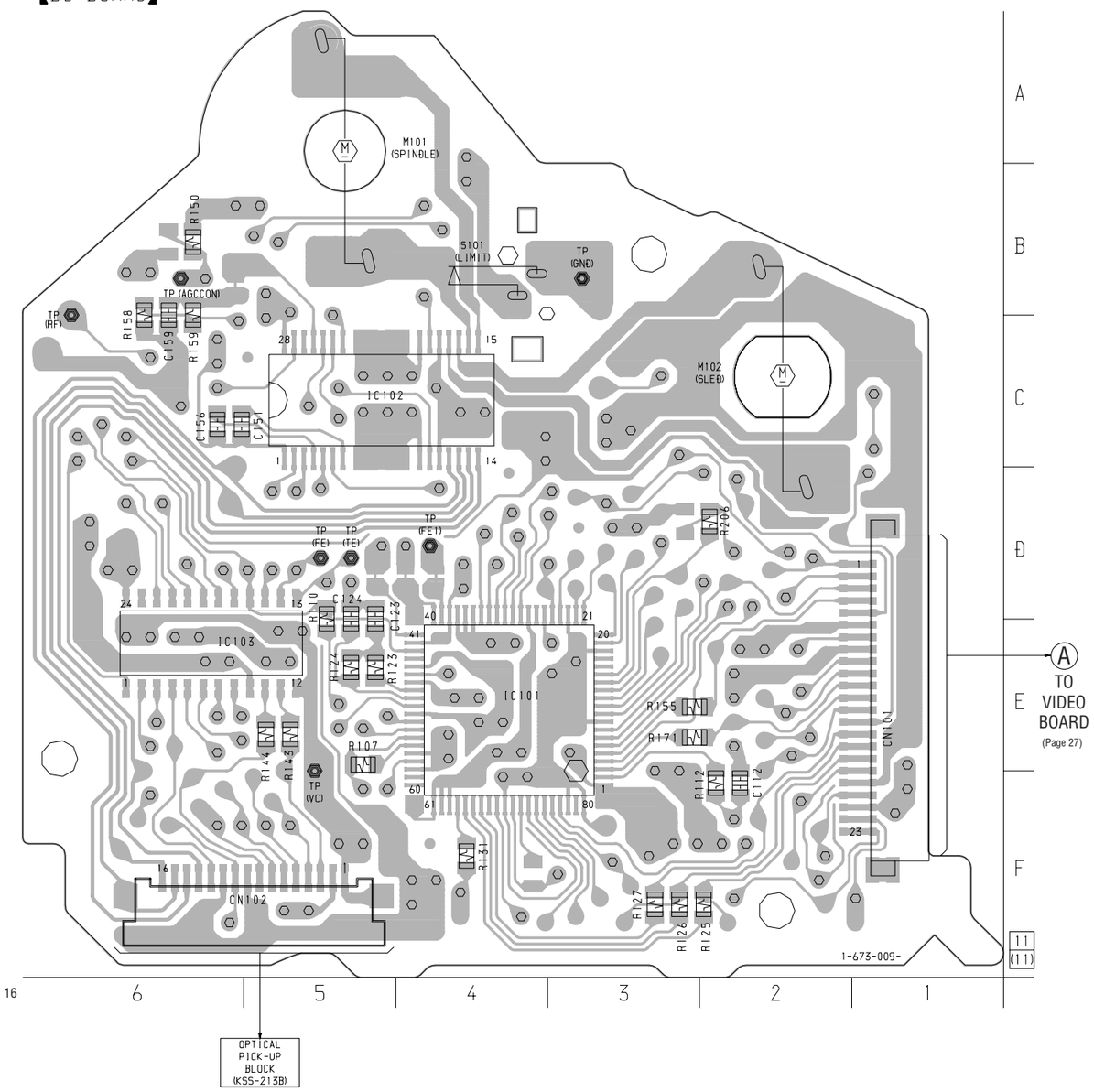
## 6-6. PRINTED WIRING BOARD BD Board

• See page 20 for Circuit Board Location.

【BD BOARD】(SIDE A)




【BD BOARD】(SIDE B)

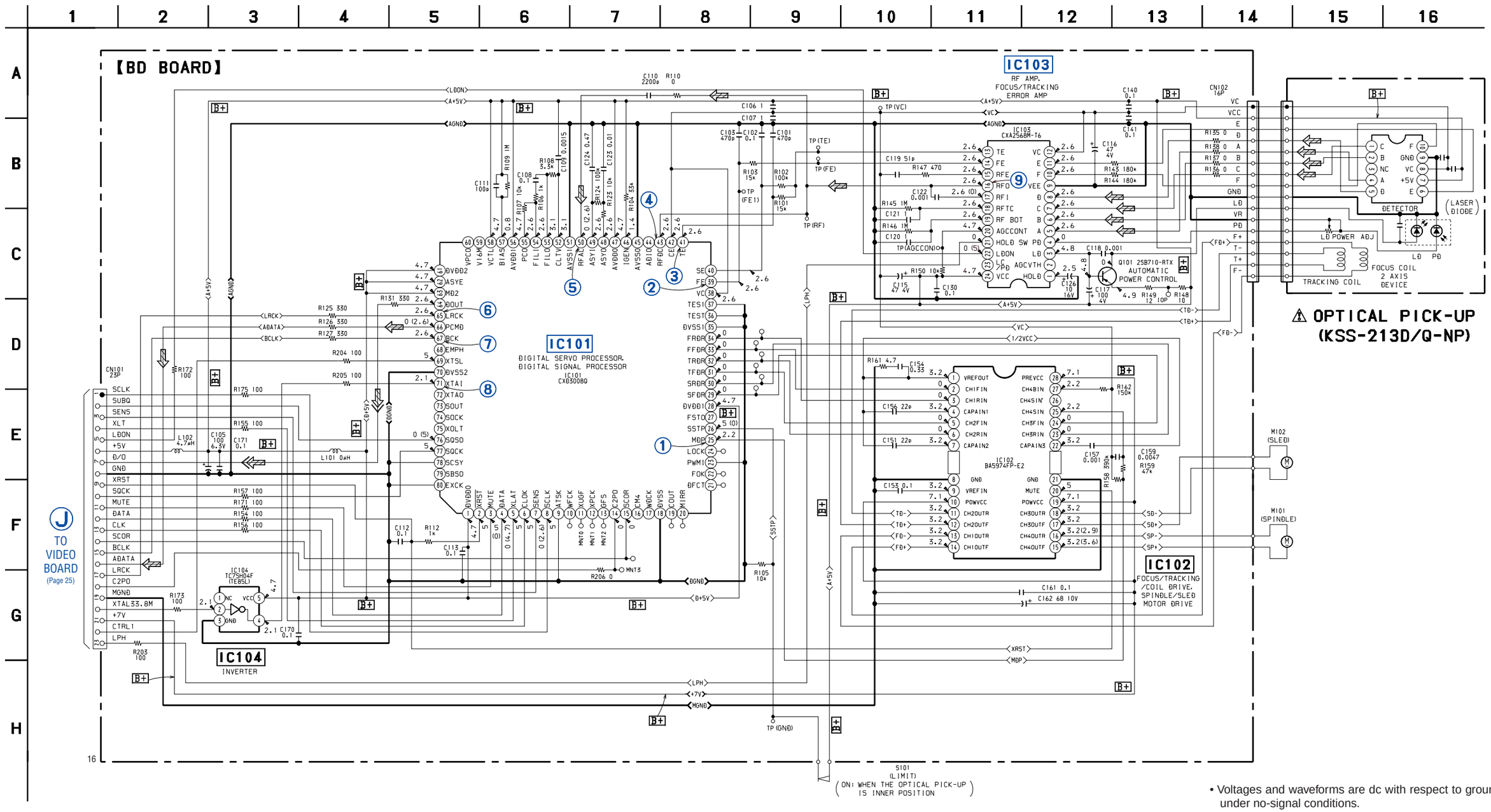



• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| IC101 | E-4(B) |
| IC102 | C-5(B) |
| IC103 | E-6(B) |
| IC104 | F-3(A) |
| Q101 | F-6(A) |

## 6-7. SCHEMATIC DIAGAM — BD Board

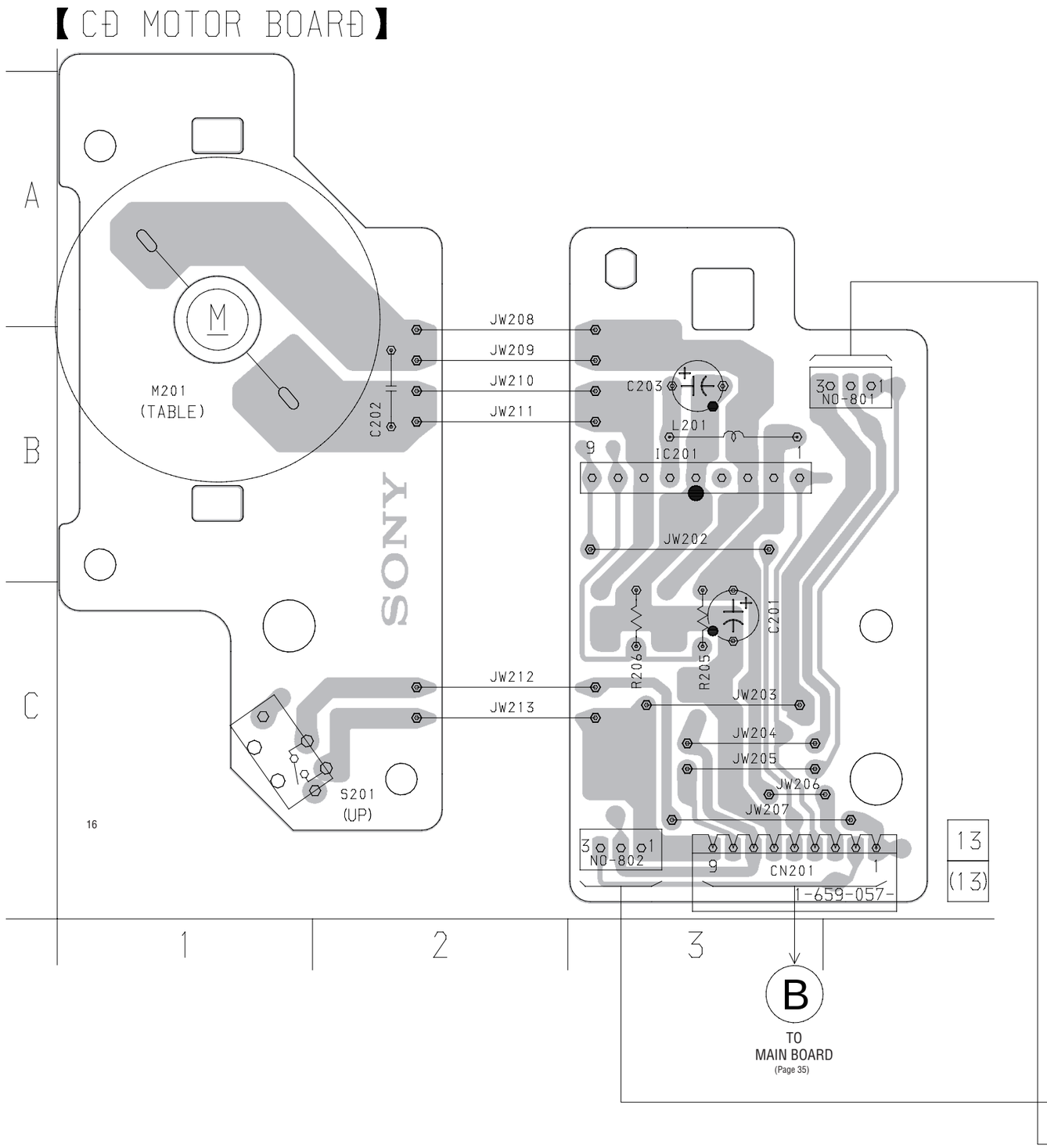
• See page 39 for Waveforms.
• See page 54 for IC Block Diagrams.

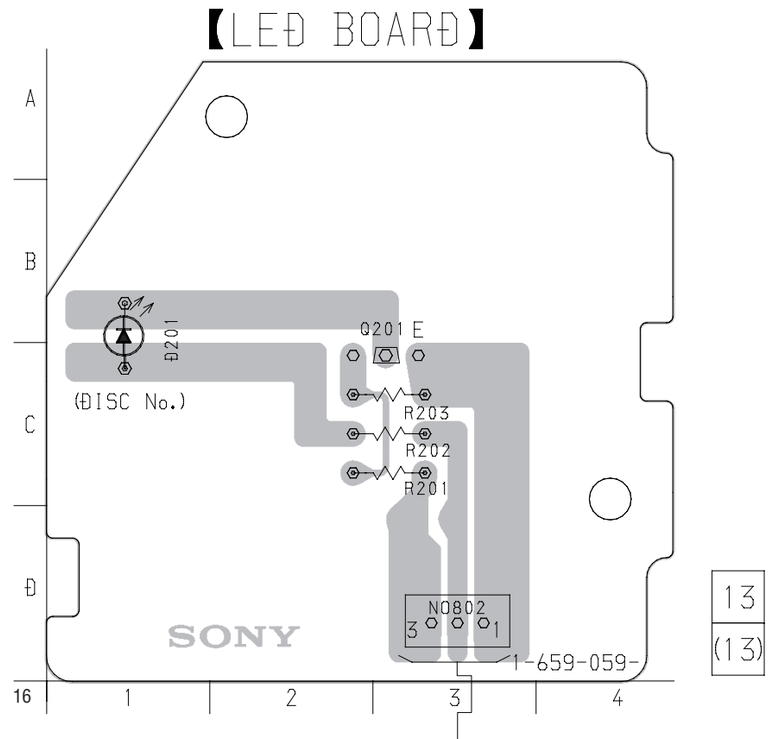


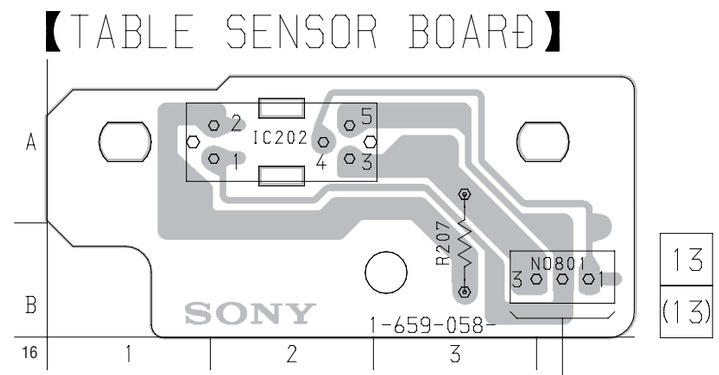

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: CD STOP
( ) : CD PLAY

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

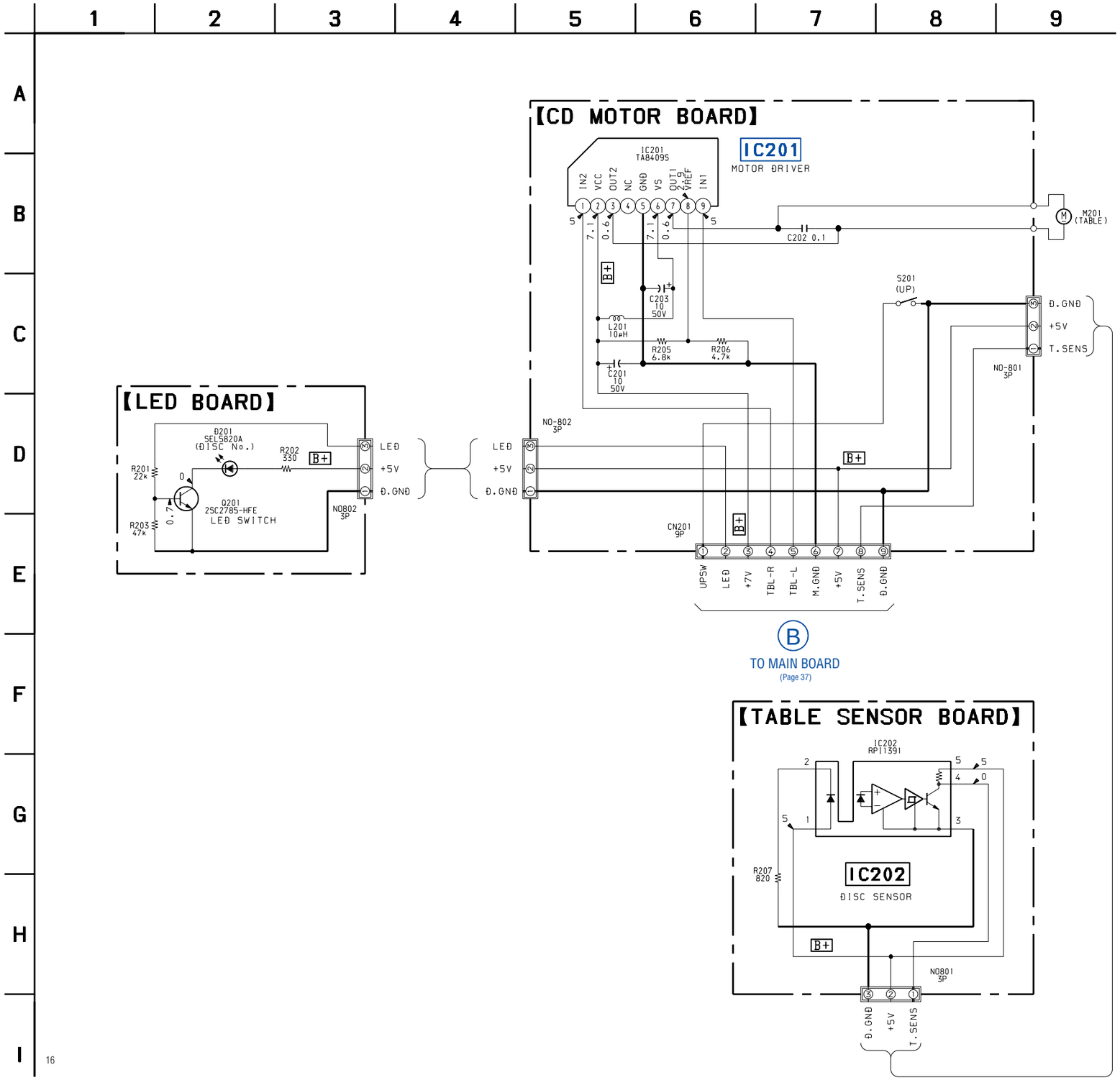
**6-8. PRINTED WIRING BAORD CD MOTOR Section** • See page 20 for Circuit Board Location.



**6-9. SCHEMATIC DIAGRAM CD MOTOR Section** • See page 55 for IC Block Diagrams.



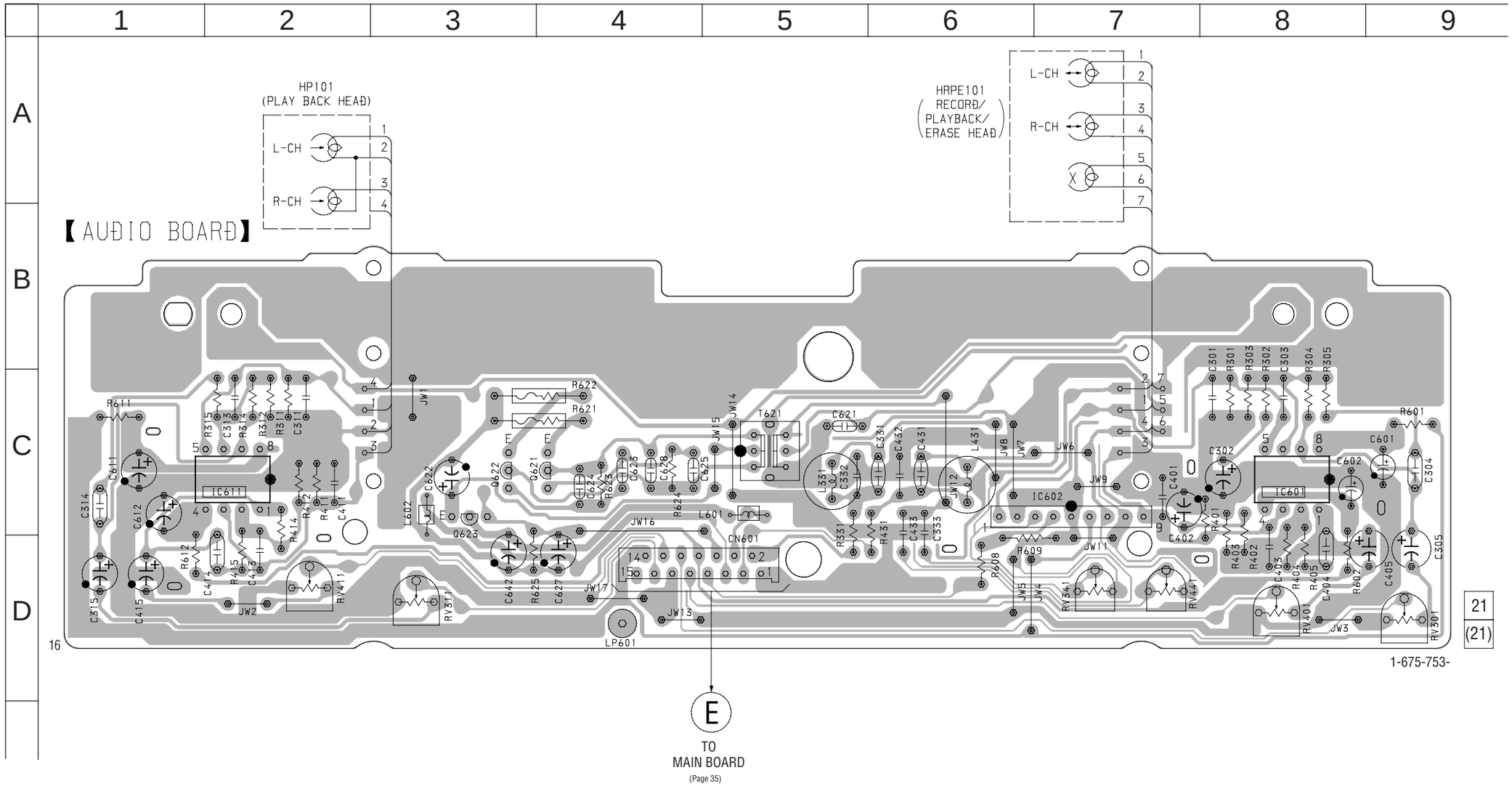

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: CD STOP

## 6-10. PRINTED WIRING BOARD AUDIO Board

• See page 20 for Circuit Board Location.

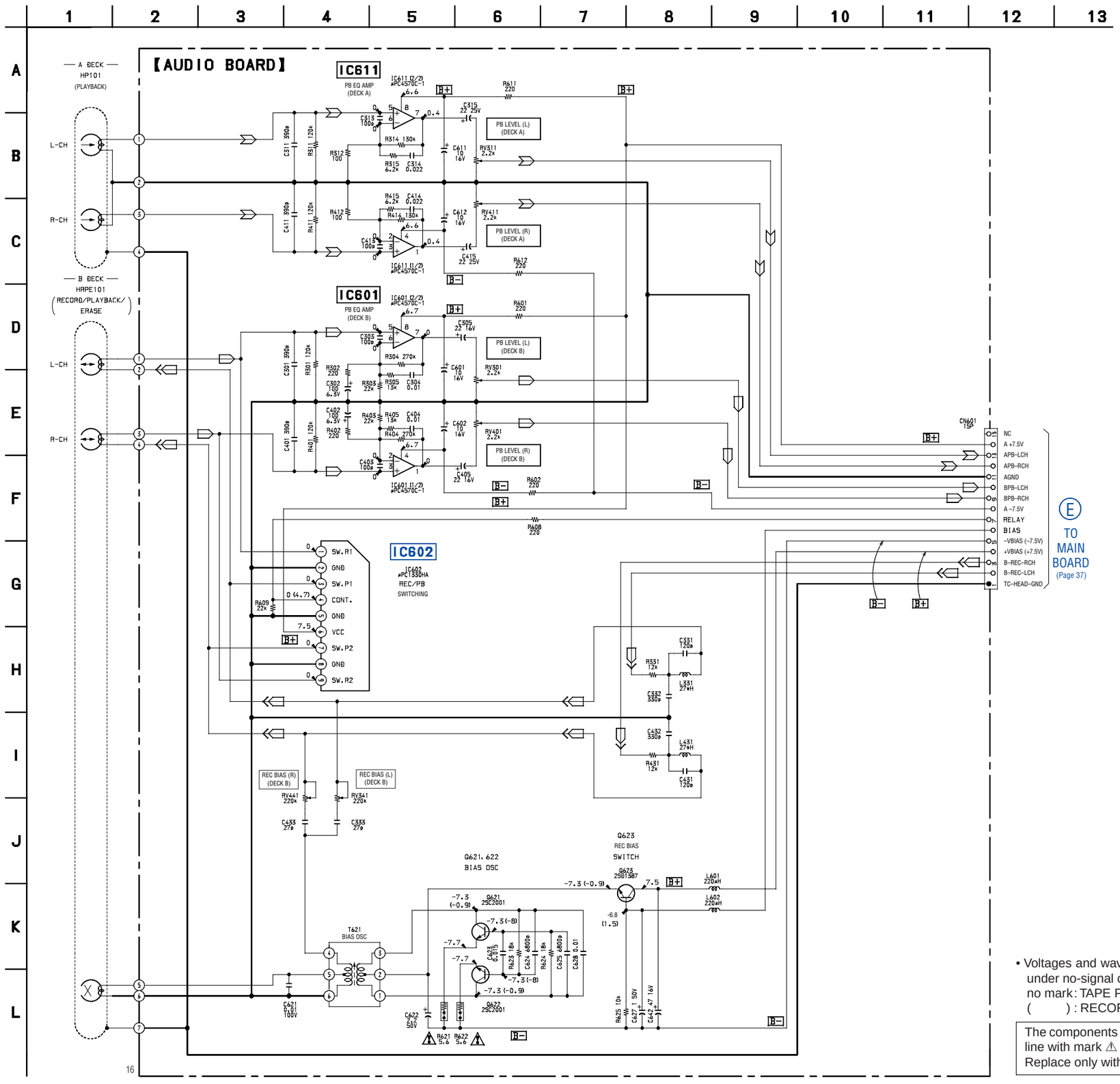
• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| IC601 | C-8 |
| IC602 | C-7 |
| IC611 | C-2 |
| Q621 | C-4 |
| Q622 | C-3 |
| Q623 | C-3 |



## 6-11. SCHEMATIC DIAGRAM AUDIO Board

• See page 55 for IC Block Diagrams.

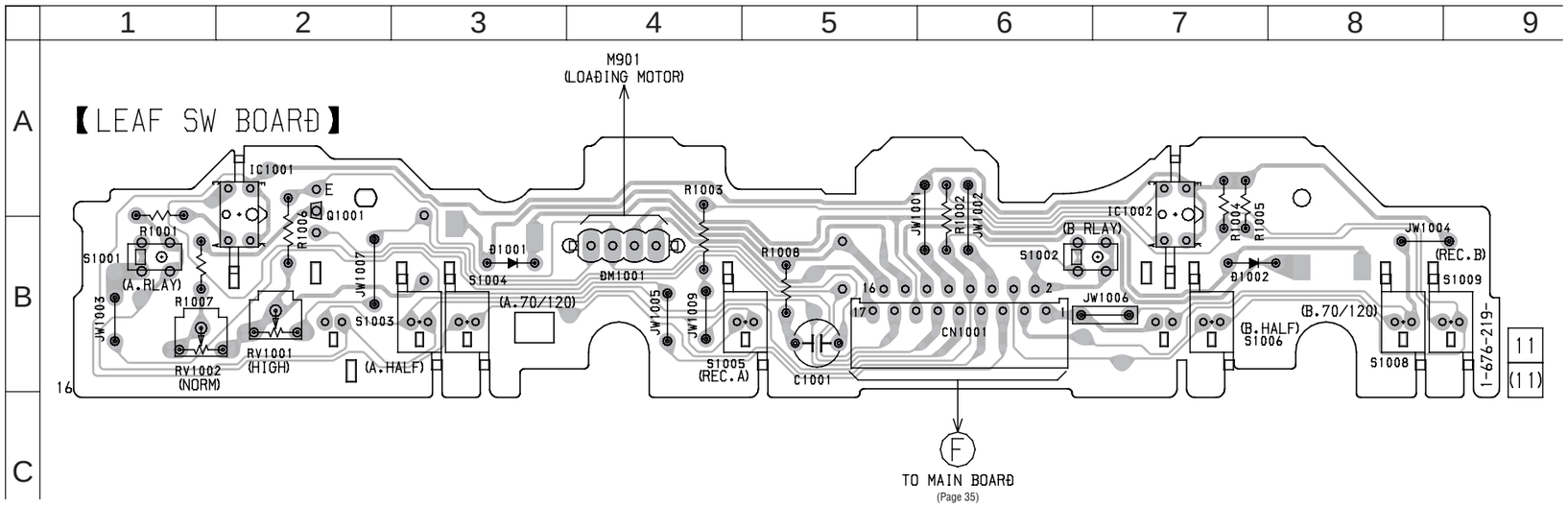



• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: TAPE PLAY
( ) : RECORD

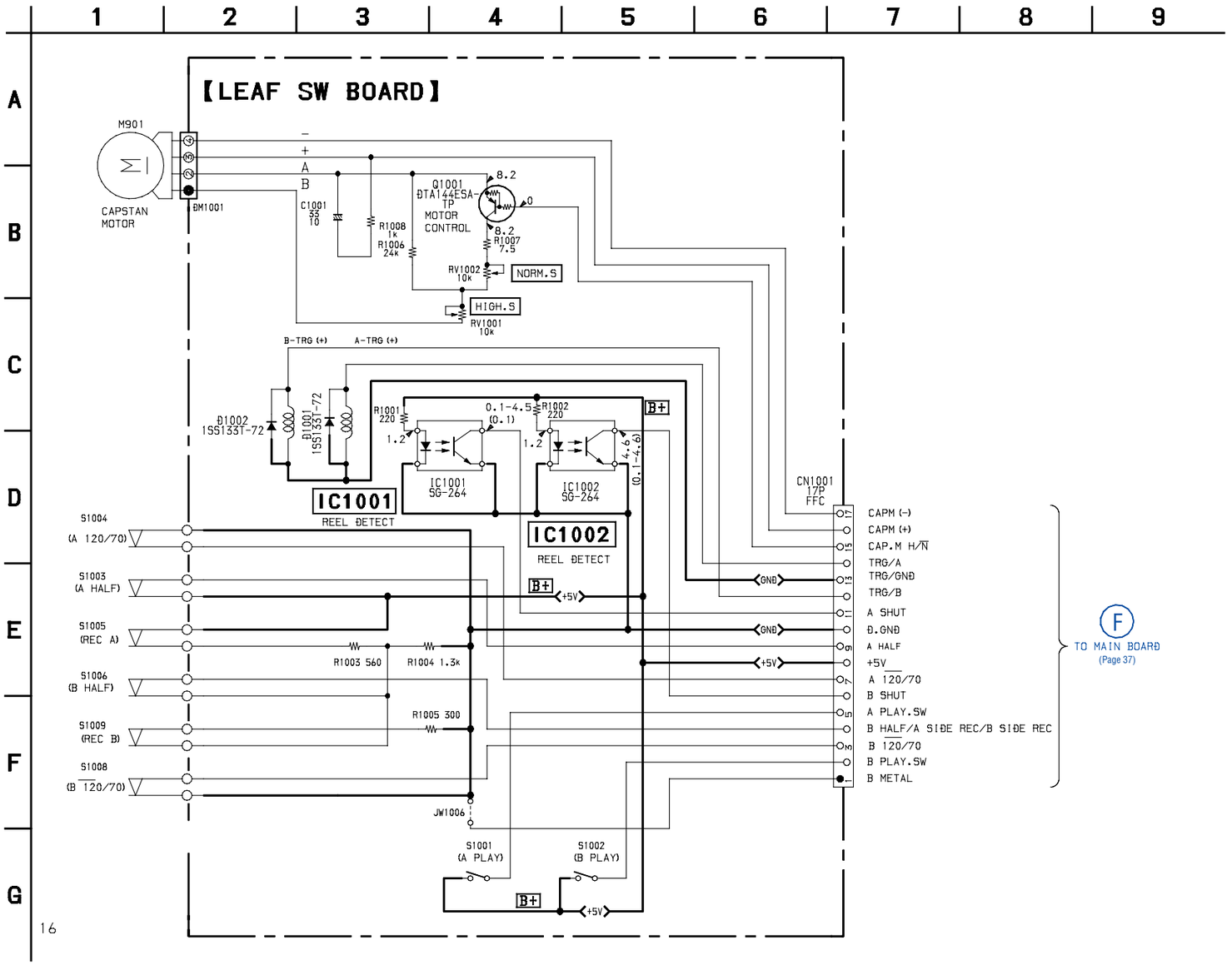
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

## 6-12. PRINTED WIRING BOARD LEAF SW Board

• See page 20 for Circuit Board Location.




## 6-13. SCHEMATIC DIAGRAM LEAF SW Board



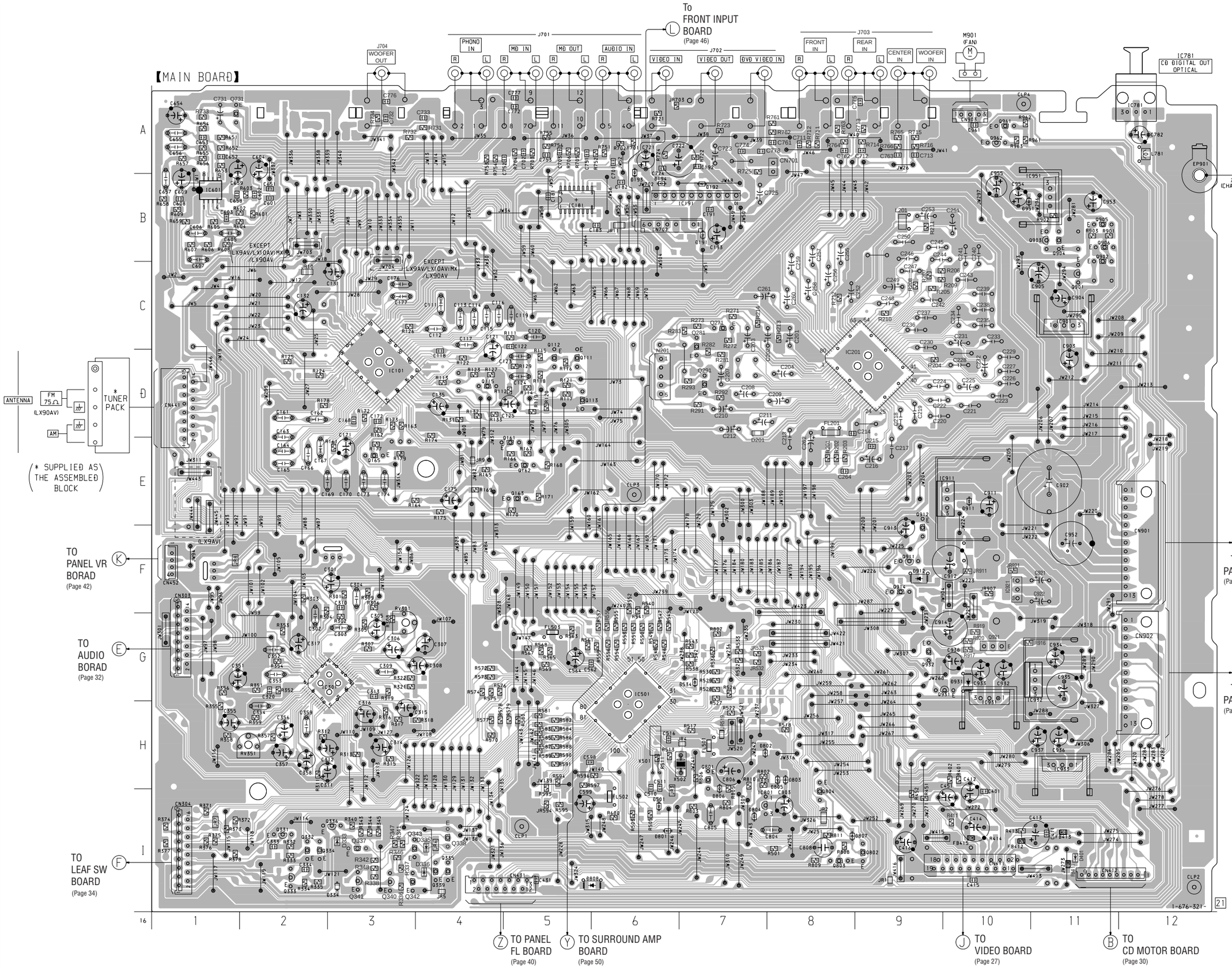

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: TAPE PLAY
( ) : RECORD
* : Impossible to measure

## 6-14. PRINTED WIRING BOARD MAIN Board

• See page 20 for Circuit Board Location.

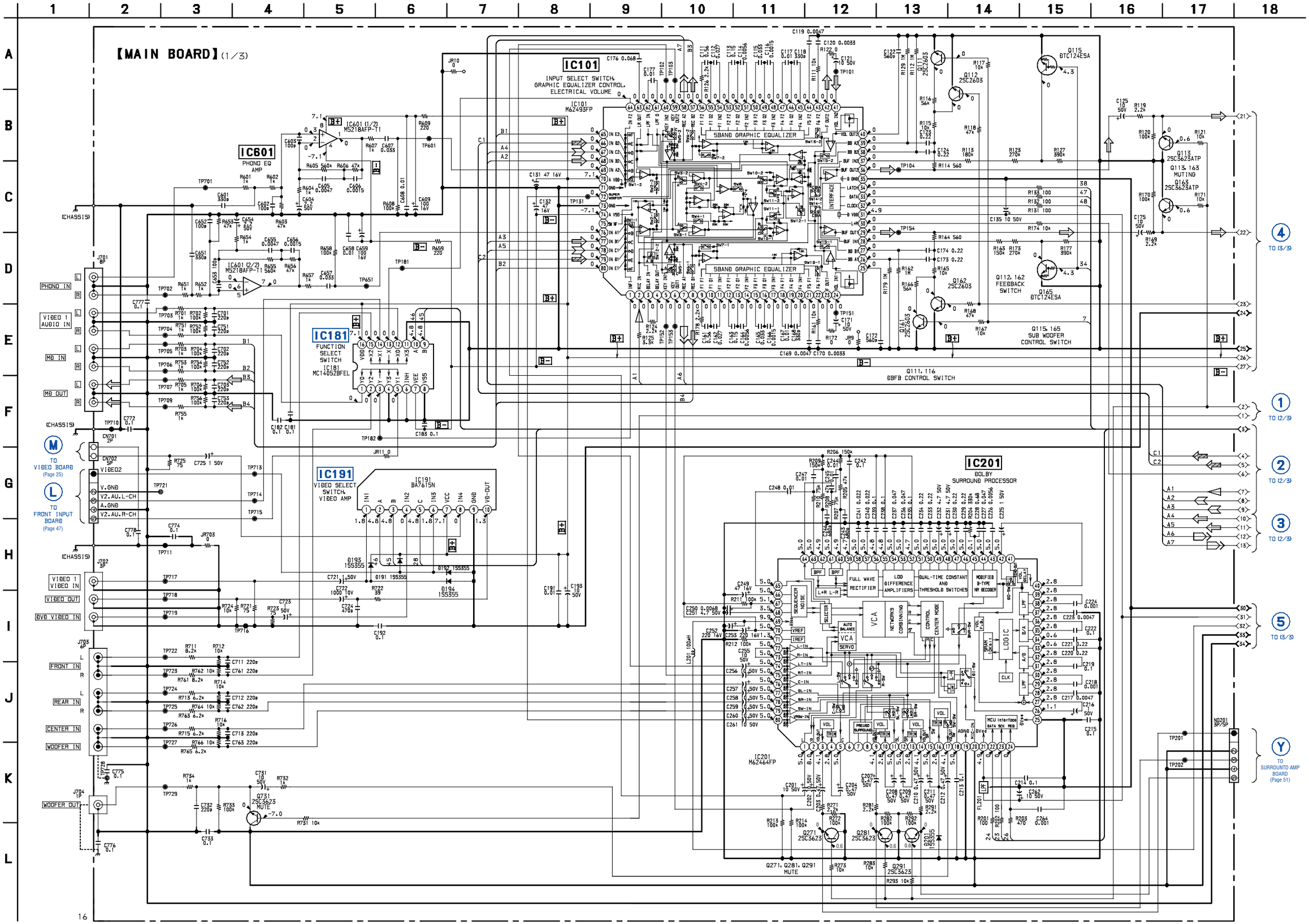
• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D191 | B-7 |
| D192 | B-7 |
| D193 | B-6 |
| D194 | B-6 |
| D201 | D-7 |
| D333 | I-3 |
| D334 | I-3 |
| D335 | I-4 |
| D336 | I-4 |
| D401 | I-11 |
| D501 | I-6 |
| D534 | G-7 |
| D801 | I-6 |
| D802 | H-7 |
| D803 | H-8 |
| D804 | I-7 |
| D805 | H-8 |
| D806 | I-7 |
| D807 | I-8 |
| D808 | I-6 |
| D911 | E-10 |
| D912 | F-9 |
| D931 | G-10 |
| D951 | B-11 |
| IC101 | D-3 |
| IC181 | B-5 |
| IC191 | B-7 |
| IC201 | D-8 |
| IC301 | G-2 |
| IC501 | G-6 |
| IC601 | B-1 |
| IC781 | A-12 |
| IC801 | I-7 |
| IC901 | C-11 |
| IC911 | E-10 |
| IC921 | F-10 |
| IC931 | G-10 |
| IC932 | H-11 |
| IC933 | H-11 |
| IC951 | B-11 |
| Q111 | D-5 |
| Q112 | D-5 |
| Q113 | D-6 |
| Q115 | D-4 |
| Q161 | E-5 |
| Q162 | E-5 |
| Q163 | E-5 |
| Q165 | E-3 |
| Q271 | C-7 |
| Q281 | C-7 |
| Q291 | D-6 |
| Q331 | I-2 |
| Q332 | I-2 |
| Q333 | I-2 |
| Q334 | I-2 |
| Q335 | I-4 |
| Q336 | I-3 |
| Q337 | I-3 |
| Q338 | I-4 |
| Q339 | I-4 |
| Q340 | I-3 |
| Q341 | I-3 |
| Q342 | I-3 |
| Q343 | I-3 |
| Q731 | A-1 |
| Q801 | H-7 |
| Q802 | I-9 |
| Q803 | I-8 |
| Q804 | I-8 |
| Q901 | C-11 |
| Q902 | C-11 |
| Q903 | B-11 |
| Q904 | B-11 |
| Q905 | B-11 |
| Q906 | B-11 |
| Q911 | F-9 |
| Q912 | F-9 |
| Q914 | F-9 |
| Q921 | G-10 |
| Q931 | G-9 |
| Q932 | G-9 |
| Q961 | A-10 |
| Q962 | A-10 |



## 6-15. SCHEMATIC DIAGRAM MAIN Board (1/3)

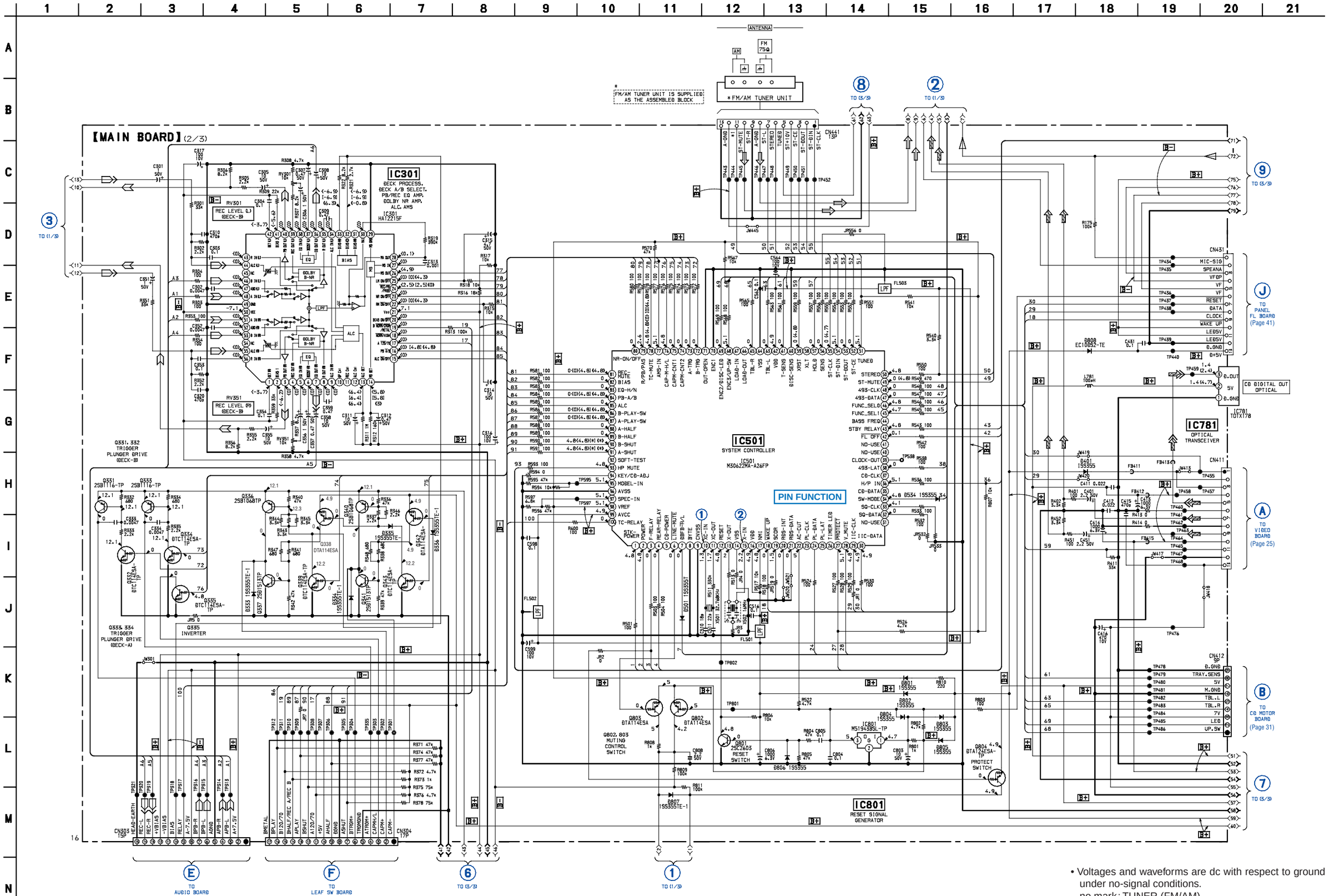
• See page 54 for IC Block Diagrams.




• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: TUNER (FM/AM)

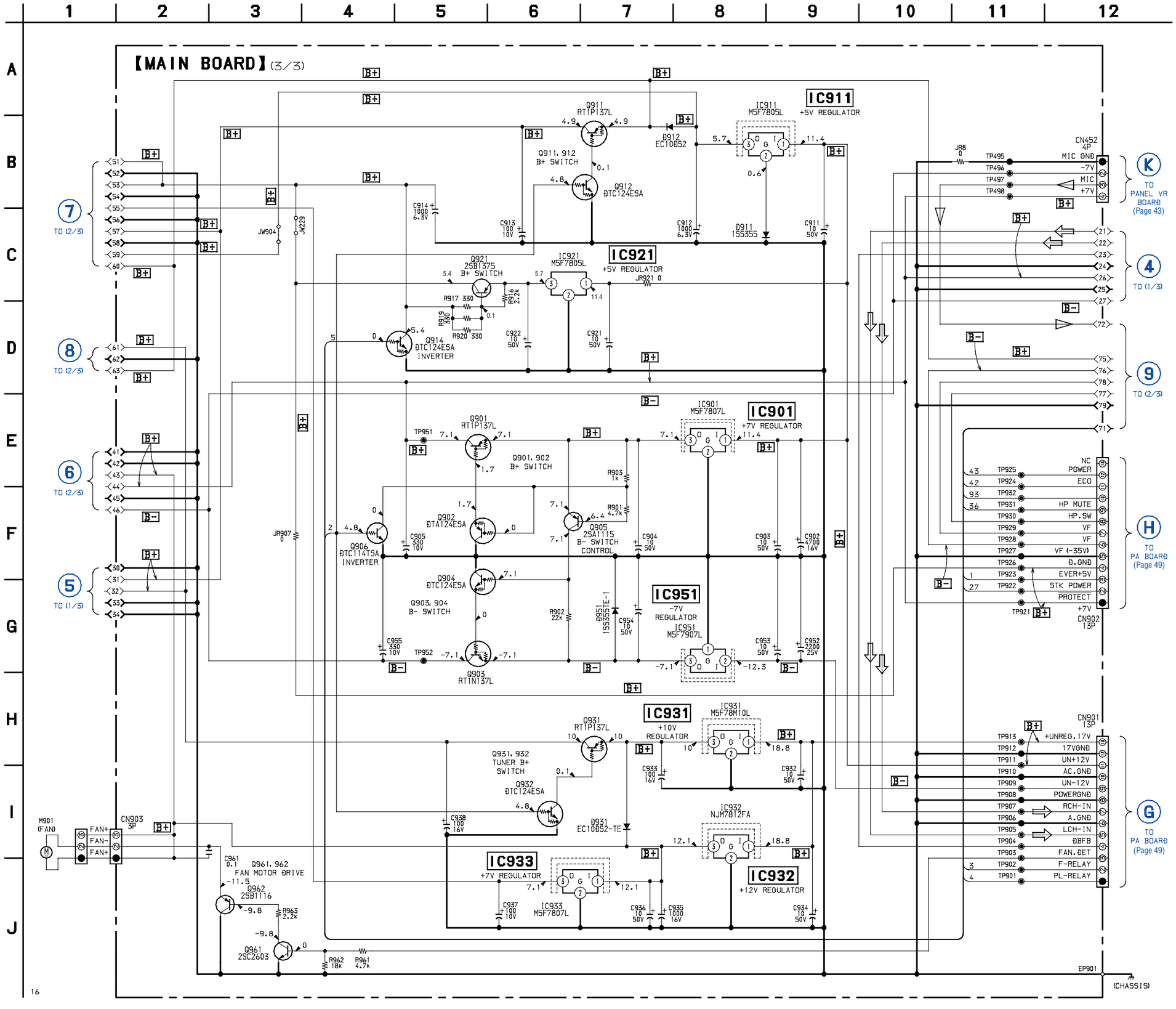
## 6-16. SCHEMATIC DIAGRAM MAIN Board (2/3)

• See page 56 for IC Pin Function.
• See page 39 for Waveforms.




- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: TUNER (FM/AM)
  ( ) : CD PLAY
  { } : TAPE PLAYBACK (DECK A)
  [ ] : TAPE PLAYBACK (DECK B)
  << >> : RECORD

## 6-17. SCHEMATIC DIAGRAM MAIN Board (3/3)

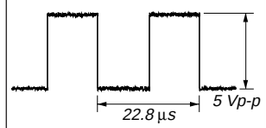



• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM

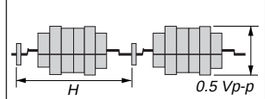
• **Waveforms**

**– VIDEO Board –**

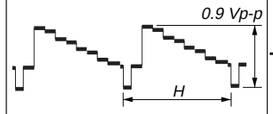
① IC501 ㉔ (LRCK)



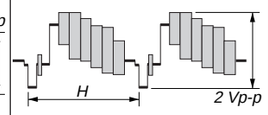

⑨ IC505 ㉕ (C-OUT)



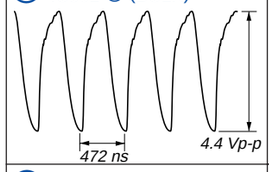

⑰ Q308 (Base)



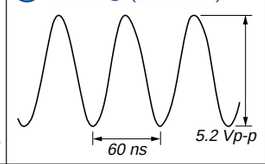

㉕ IC401 ①



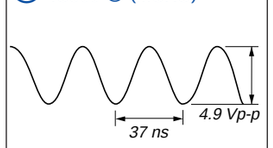

② IC501 ⑬ (BCLK)



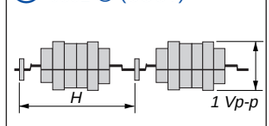

⑩ IC505 ㊽ (DA-XCLK)



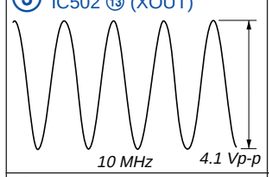

⑱ IC509 ④ (MCKO)



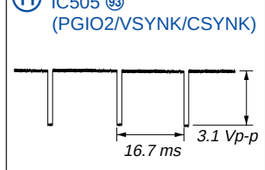

㉖ J301 ③ (COUT)



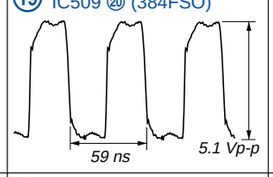

③ IC502 ⑬ (XOUT)



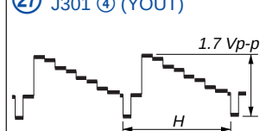

⑪ IC505 ㉝ (PGIO2/VSYNK/CSYNK)



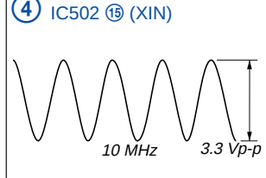

⑲ IC509 ⑳ (384FSO)



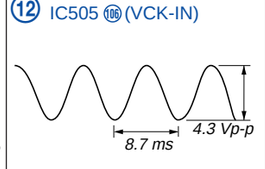

㉗ J301 ④ (YOUT)



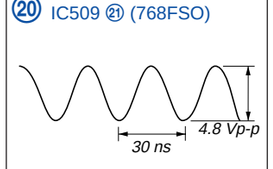

④ IC502 ⑮ (XIN)



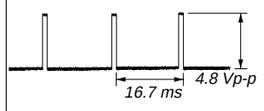

⑫ IC505 ㊿ (VCK-IN)



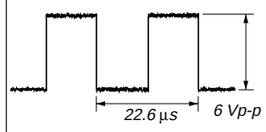

⑳ IC509 ㉑ (768FSO)




⑤ IC502 ㊺ (BUS)

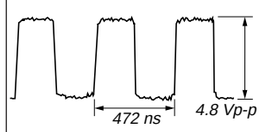



⑬ IC505 ㊽ (DA-LRCK), IC509 ⑲ (LRCK)

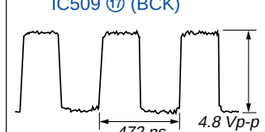



㉑ IC509 ㉔ (XT2)

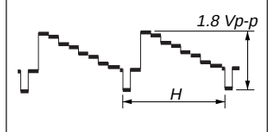
⑥ IC505 ③ (CD-BCK)



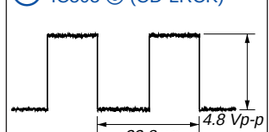

⑭ IC505 ㊾ (DA-BCK), IC509 ⑰ (BCK)



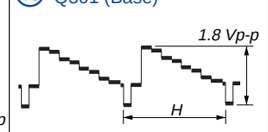

㉒ IC401 ⑦



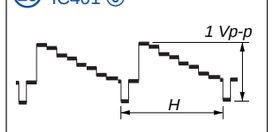

⑦ IC505 ⑤ (CD-LRCK)



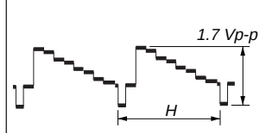

⑮ Q301 (Base)



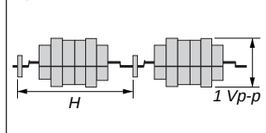

㉓ IC401 ⑤



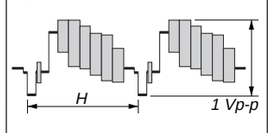

⑧ IC505 ㊾ (Y-OUT)




⑯ Q303, Q304 (Base)

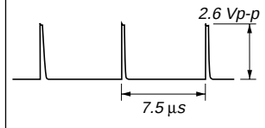



㉔ IC401 ③

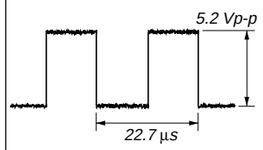



**– BD Board –**

① IC101 ㉖ (MDP)

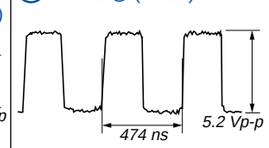



⑥ IC101 ㊺ (LRCK)



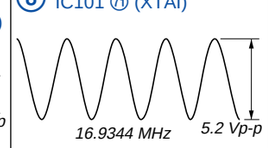

② IC101 ㊴ (FE) (CD Play mode)

⑦ IC101 ㊼ (BCLK)

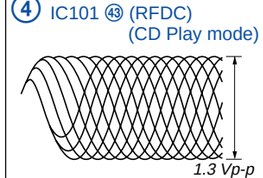



③ IC101 ㊶ (TE) (CD Play mode)

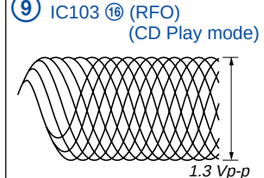
⑧ IC101 ㊶ (XTAI)



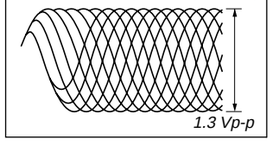

④ IC101 ㊸ (RFDC) (CD Play mode)




⑨ IC103 ⑯ (RFO) (CD Play mode)

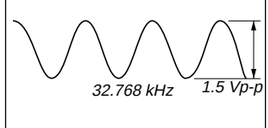



⑤ IC101 ㊿ (RFAC) (CD Play mode)

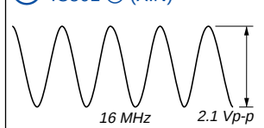



**– MAIN Board –**

① IC501 ⑩ (XC-IN)

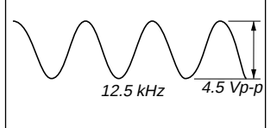



② IC501 ⑮ (XIN)



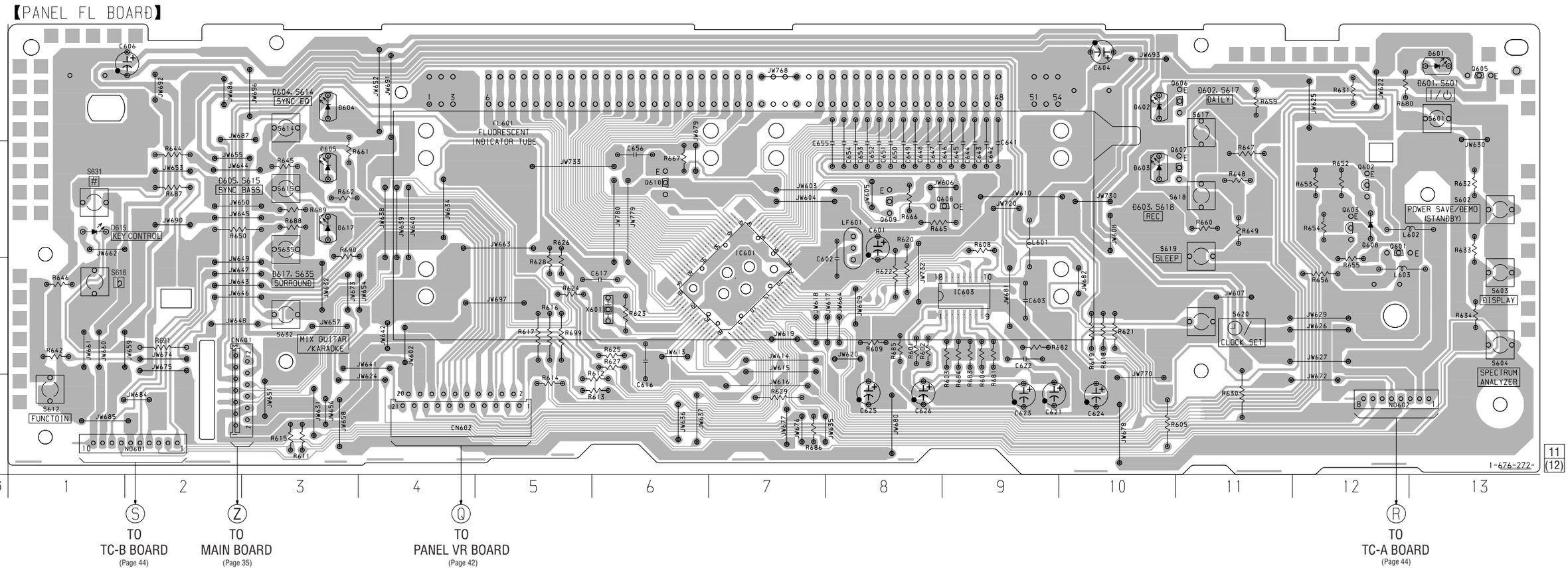

**– PANEL FL Board –**

① IC601 ㉜ (XOUT)



## 6-18. PRINTED WIRING BOARD PANEL FL Board

• See page 20 for Circuit Board Location.

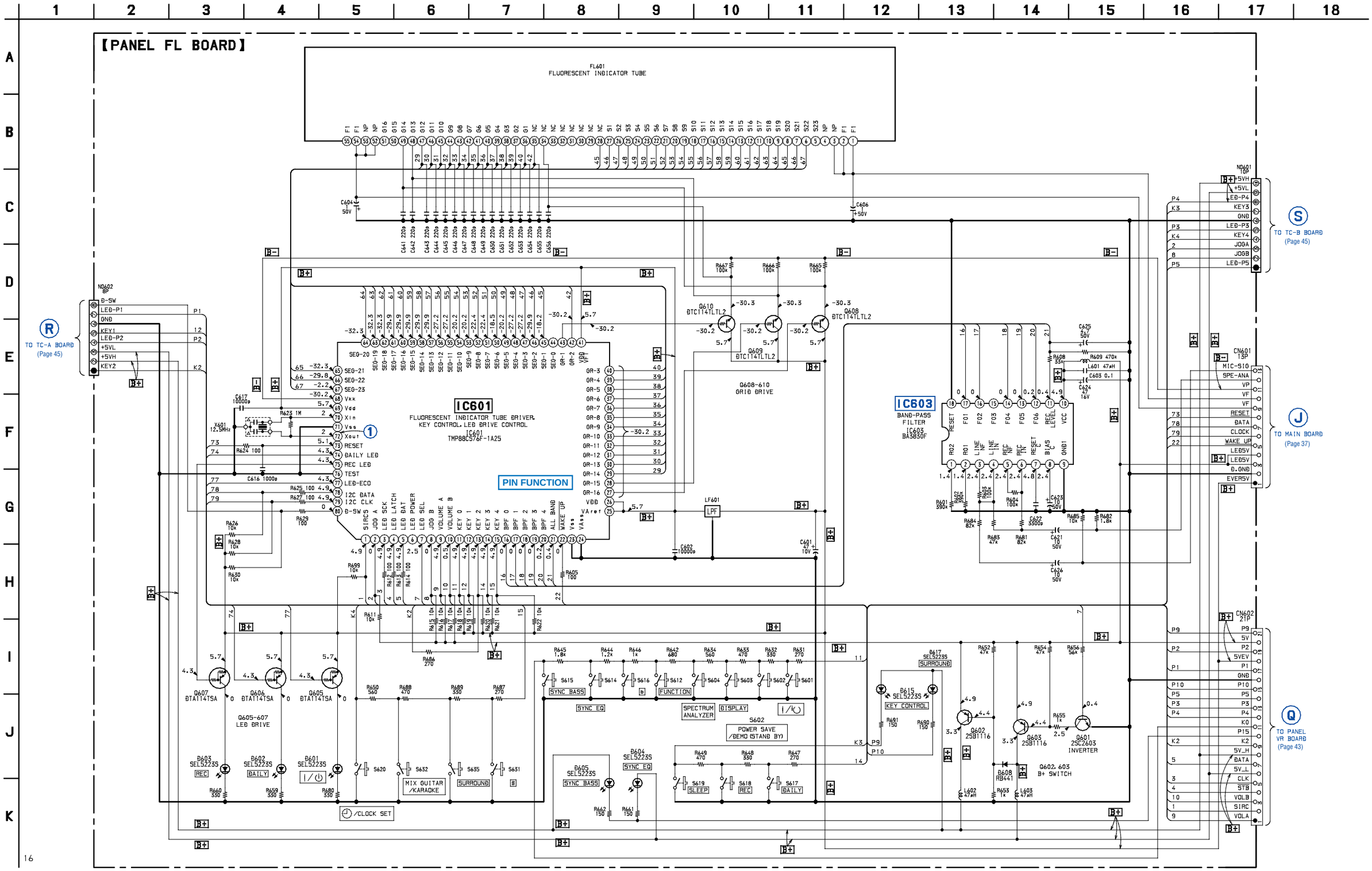



• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D601 | A-13 |
| D602 | A-10 |
| D603 | B-10 |
| D604 | A-3 |
| D605 | B-3 |
| D608 | B-12 |
| D617 | B-3 |
| D615 | B-1 |
| IC601 | C-7 |
| IC603 | C-9 |
| Q601 | B-12 |
| Q602 | B-12 |
| Q603 | B-12 |
| Q605 | A-13 |
| Q606 | A-10 |
| Q607 | B-10 |
| Q608 | B-9 |
| Q609 | B-8 |
| Q610 | B-6 |

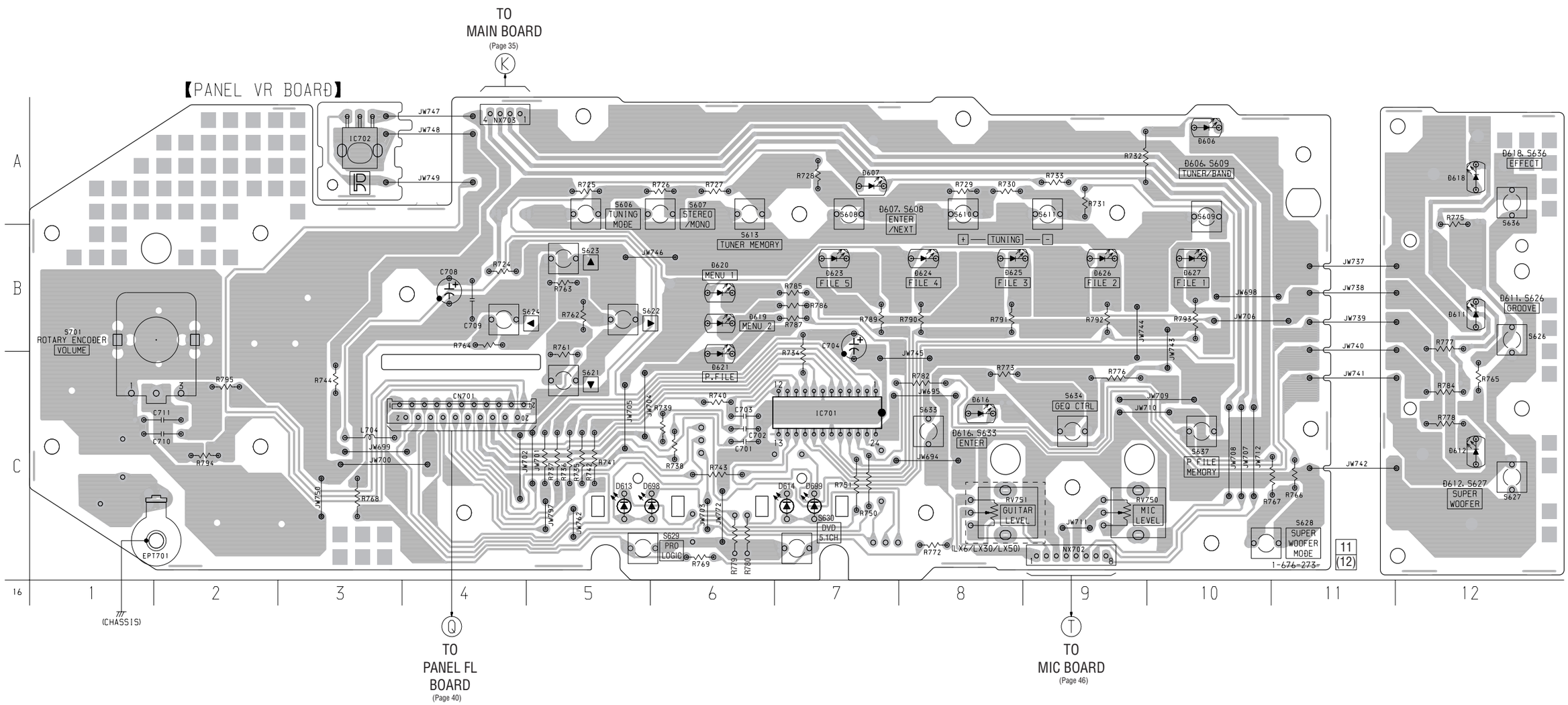
## 6-19. SCHEMATIC DIAGRAM PANEL FL Board


- See page 39 for Waveform.
- See page 55 for IC Block Diagrams.
- See page 58 for IC Pin Function.


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: FM

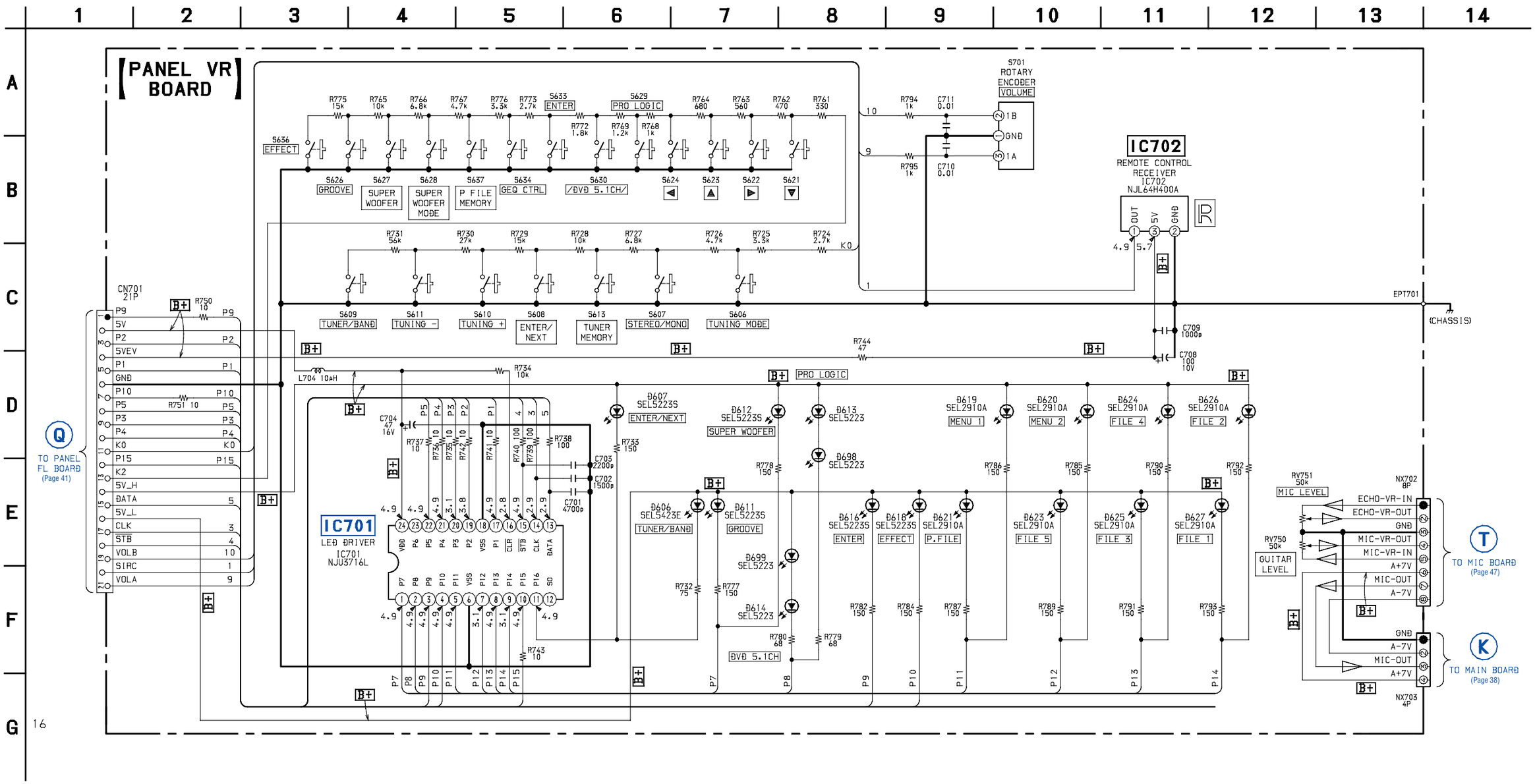
**6-20. PRINTED WIRING BOARD PANEL VR Board** • See page 20 for Circuit Board Location.




• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D606 | A-10 |
| D607 | A-7 |
| D611 | B-12 |
| D612 | C-12 |
| D613 | C-5 |
| D614 | C-7 |
| D616 | C-8 |
| D618 | A-12 |
| D619 | B-6 |
| D620 | B-6 |
| D621 | B-6 |
| D623 | B-7 |
| D624 | B-8 |
| D625 | B-8 |
| D626 | B-9 |
| D627 | B-10 |
| D698 | C-5 |
| D699 | C-7 |
| IC701 | A-3 |
| IC702 | C-7 |

**6-21. SCHEMATIC DIAGRAM PANEL VR Board** • See page 54 for IC Block Diagram.



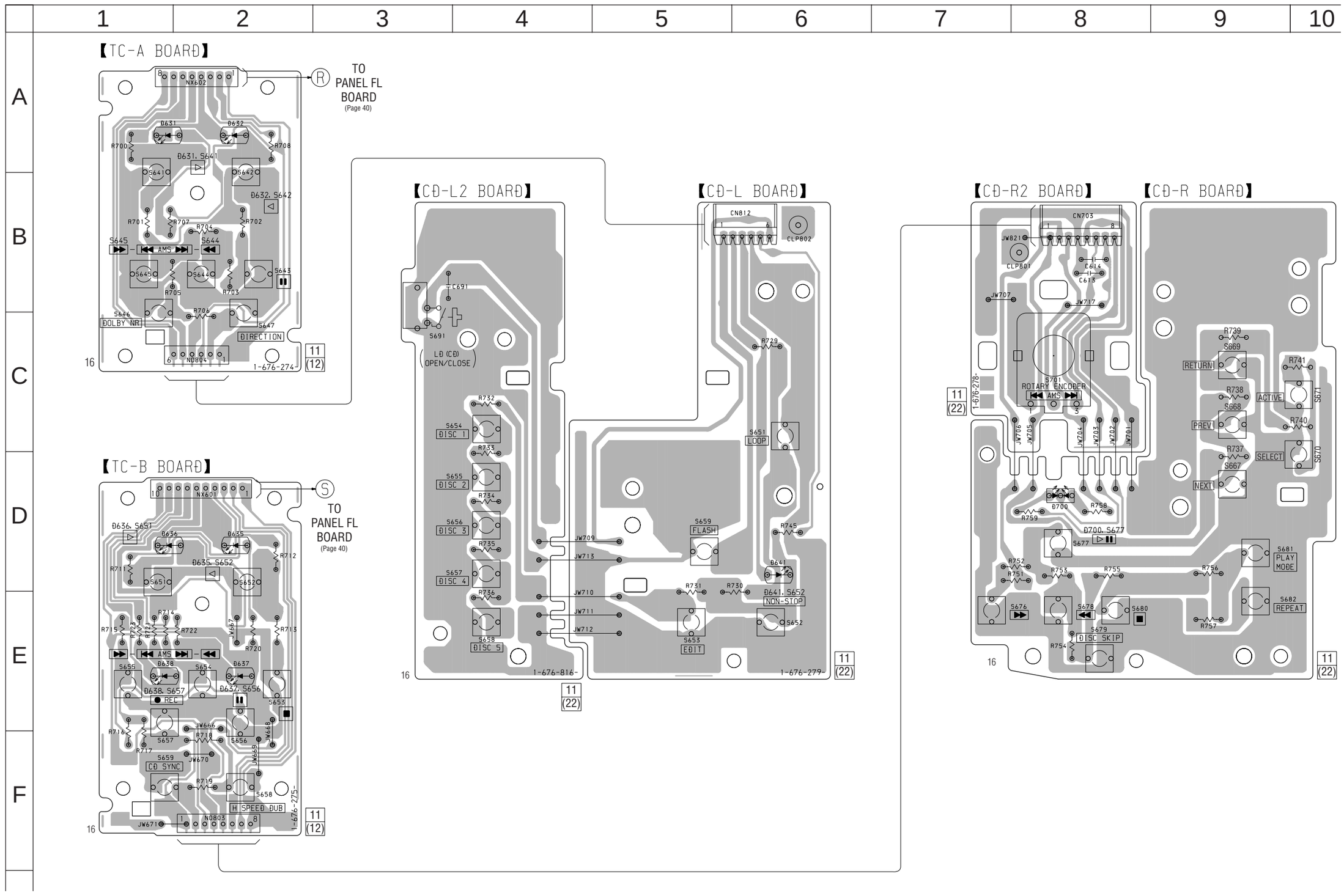

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM

## 6-22. PRINTED WIRING BOARD TC-A/TC-B/CD-L/CD-L2/CD-R/CD-R2 Boards

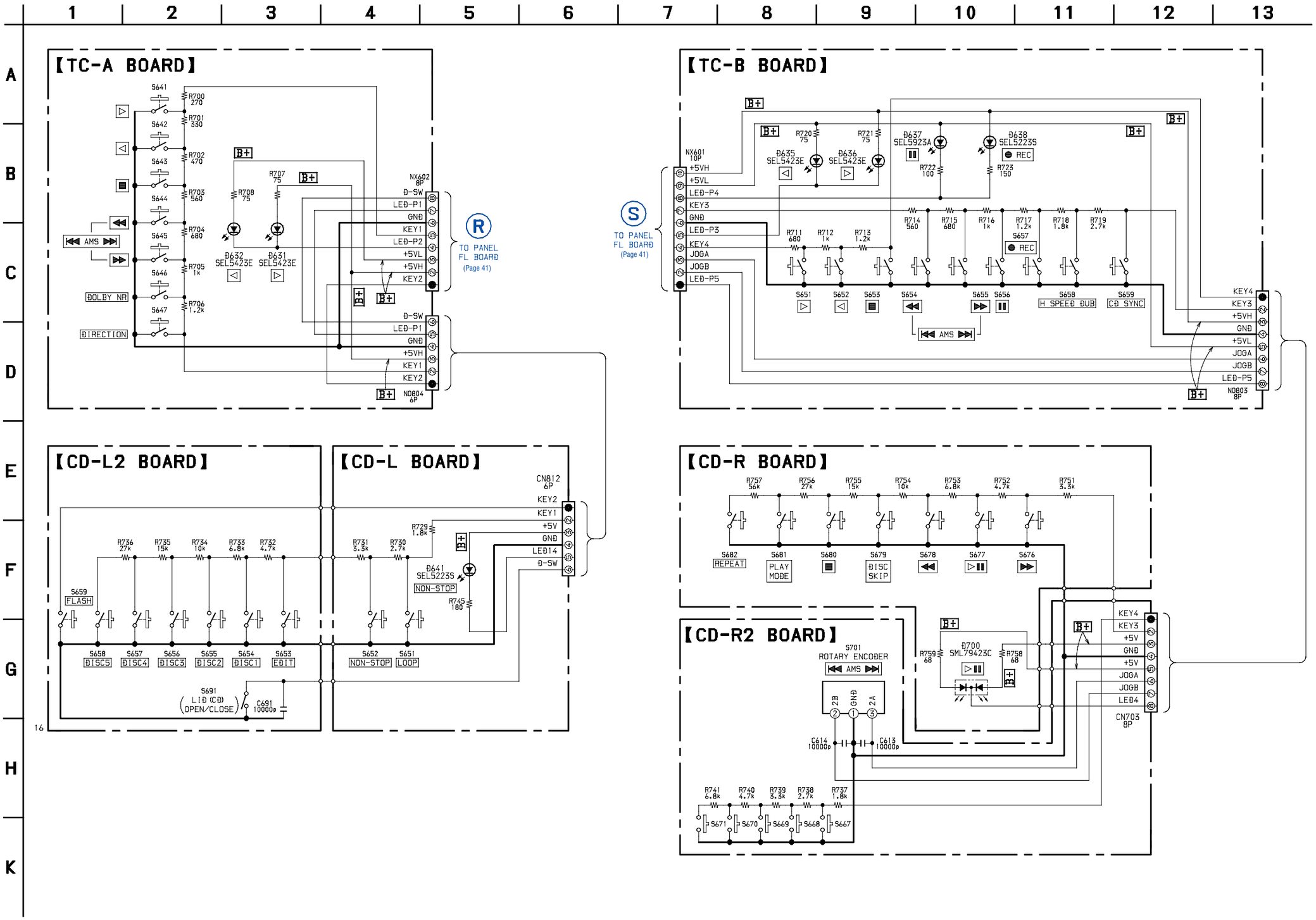
• See page 20 for Circuit Board Location.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D631 | A-2 |
| D632 | A-2 |
| D635 | D-2 |
| D636 | D-2 |
| D637 | E-2 |
| D638 | E-2 |
| D641 | D-6 |
| D700 | D-8 |

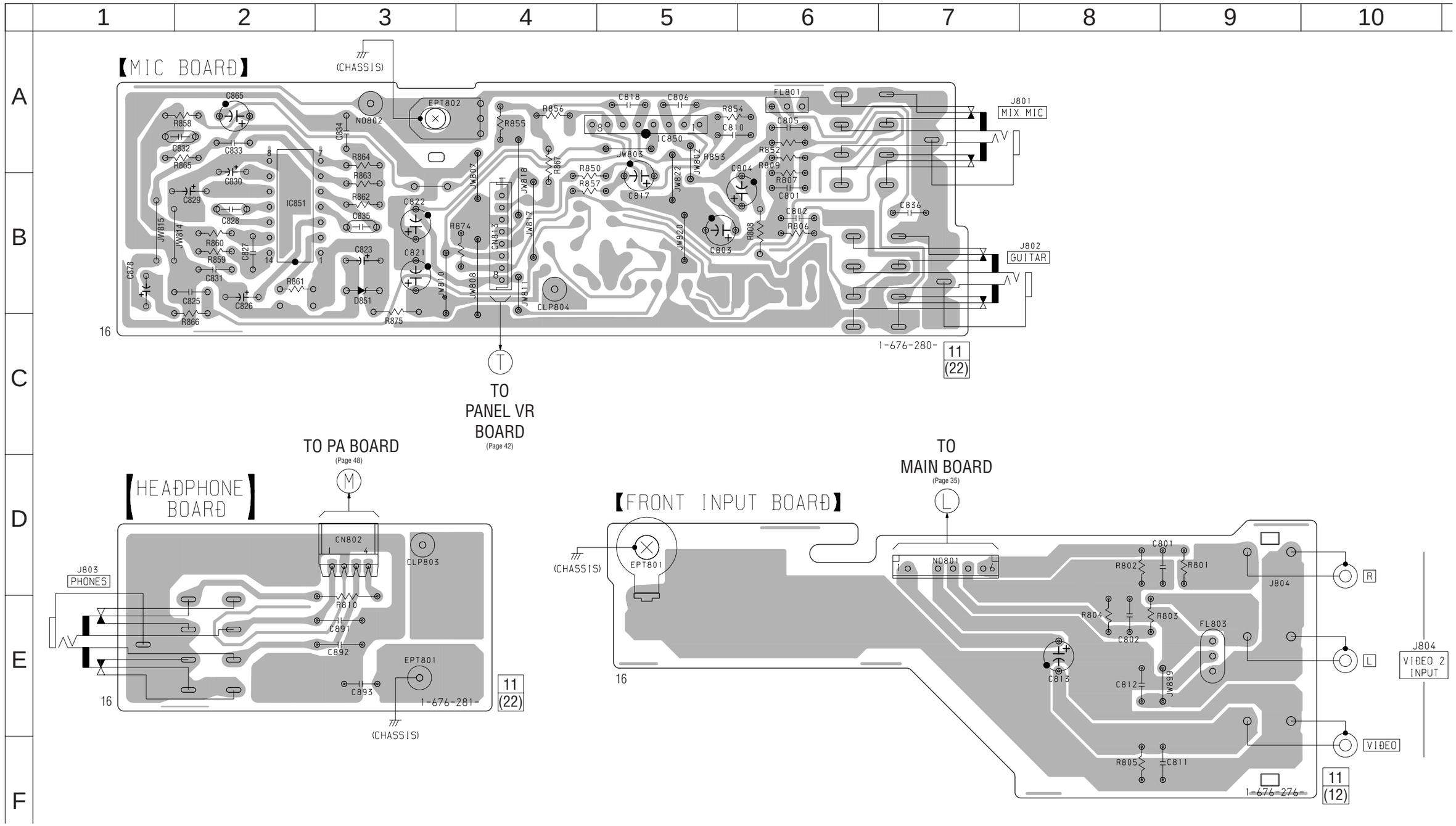


## 6-23. SCHEMATIC DIAGRAM TC-A/TC-B/CD-L/CD-L2/CD-R/CD-R2 Boards




- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: FM

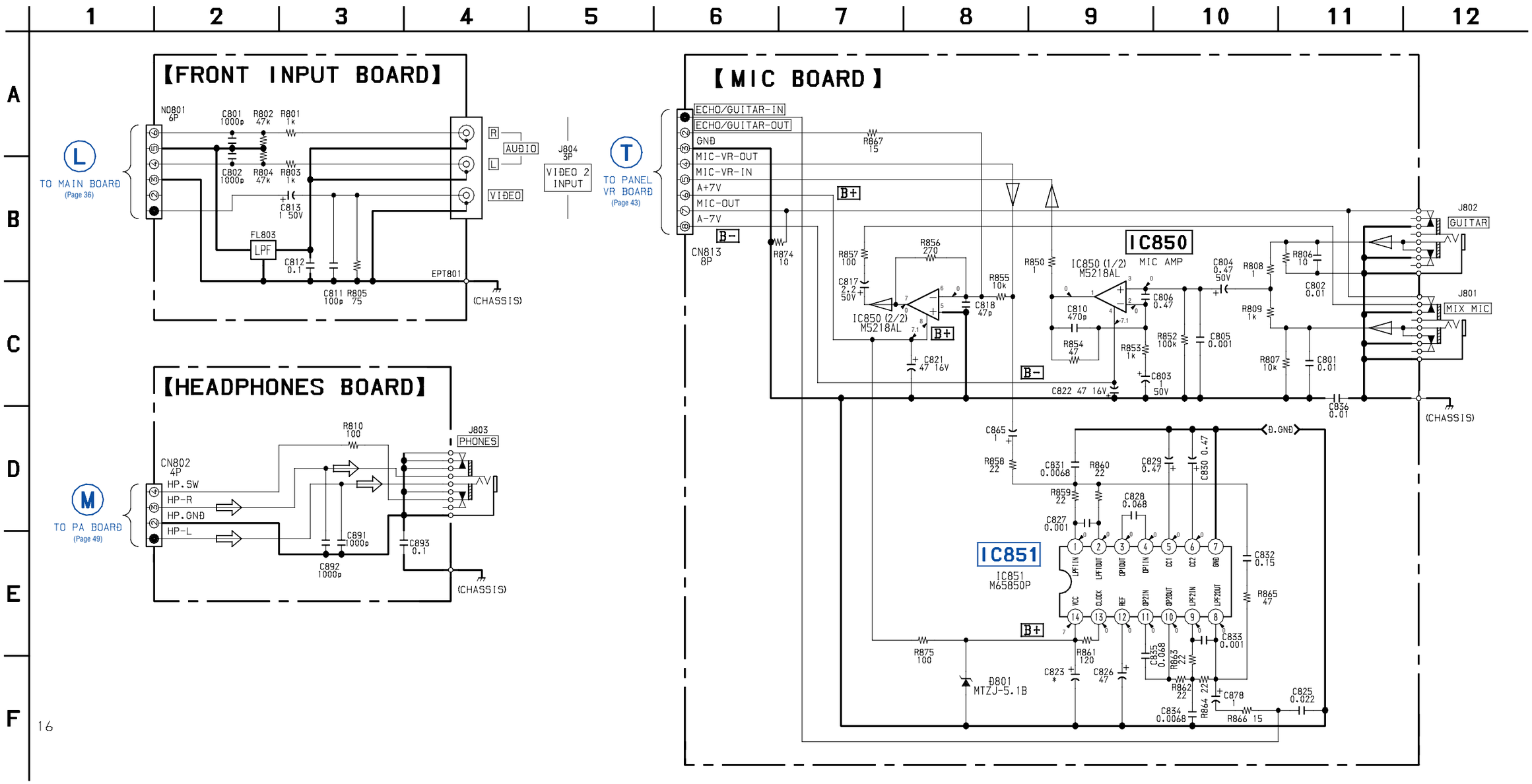
**6-24. PRINTED WIRING BOARD FRONT INPUT/HEADPHONE/MIC Boards** • See page 20 for Circuit Board Location.




- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D801 | B-3 |
| IC850 | A-5 |
| IC851 | B-2 |

## 6-25. SCHEMATIC DIAGRAM FRONT INPUT/HEADPHONE/MIC Boards • See page 54 for IC Block Diagrams.



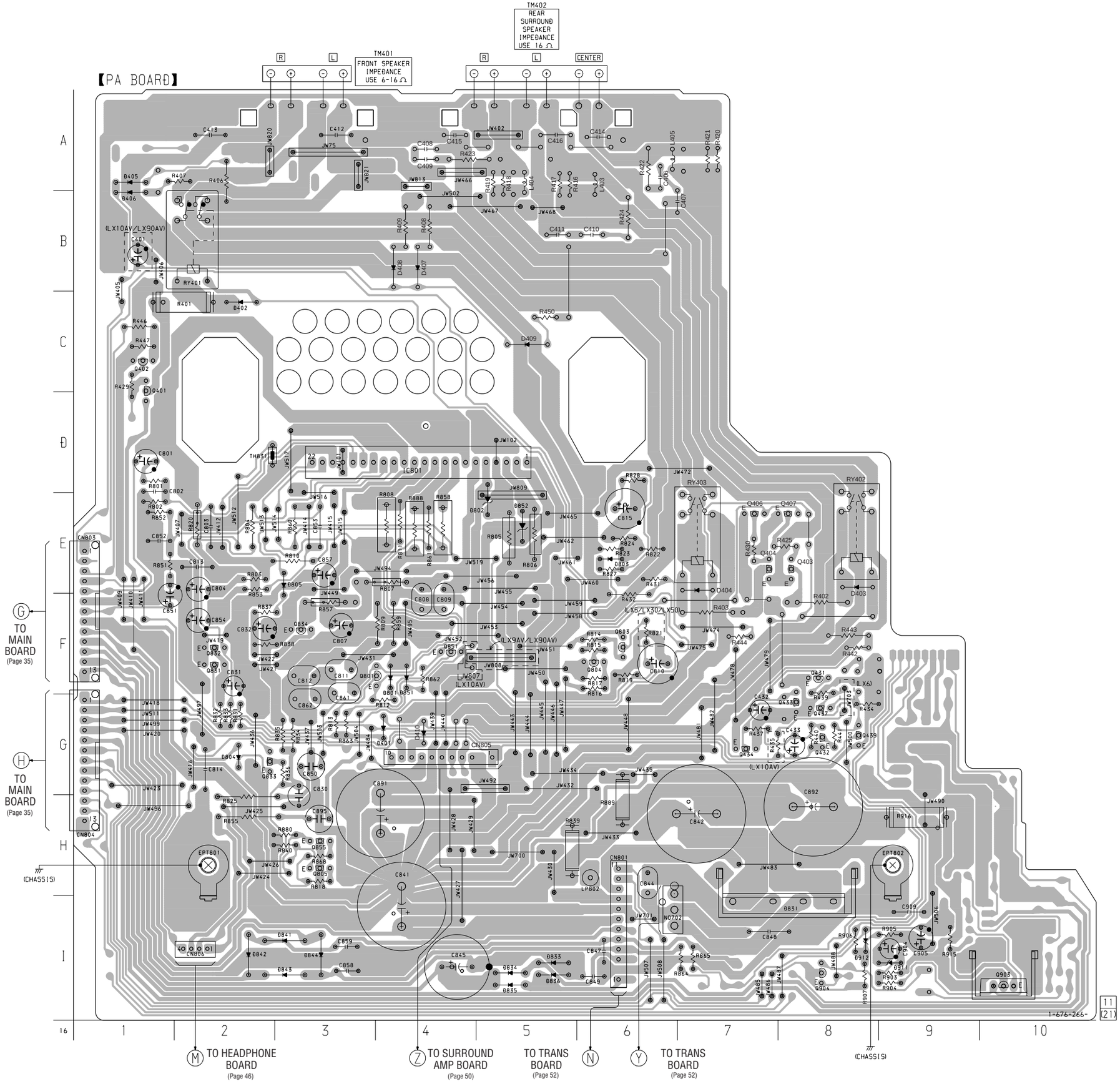

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM

## 6-26. PRINTED WIRING BOARD PA Board

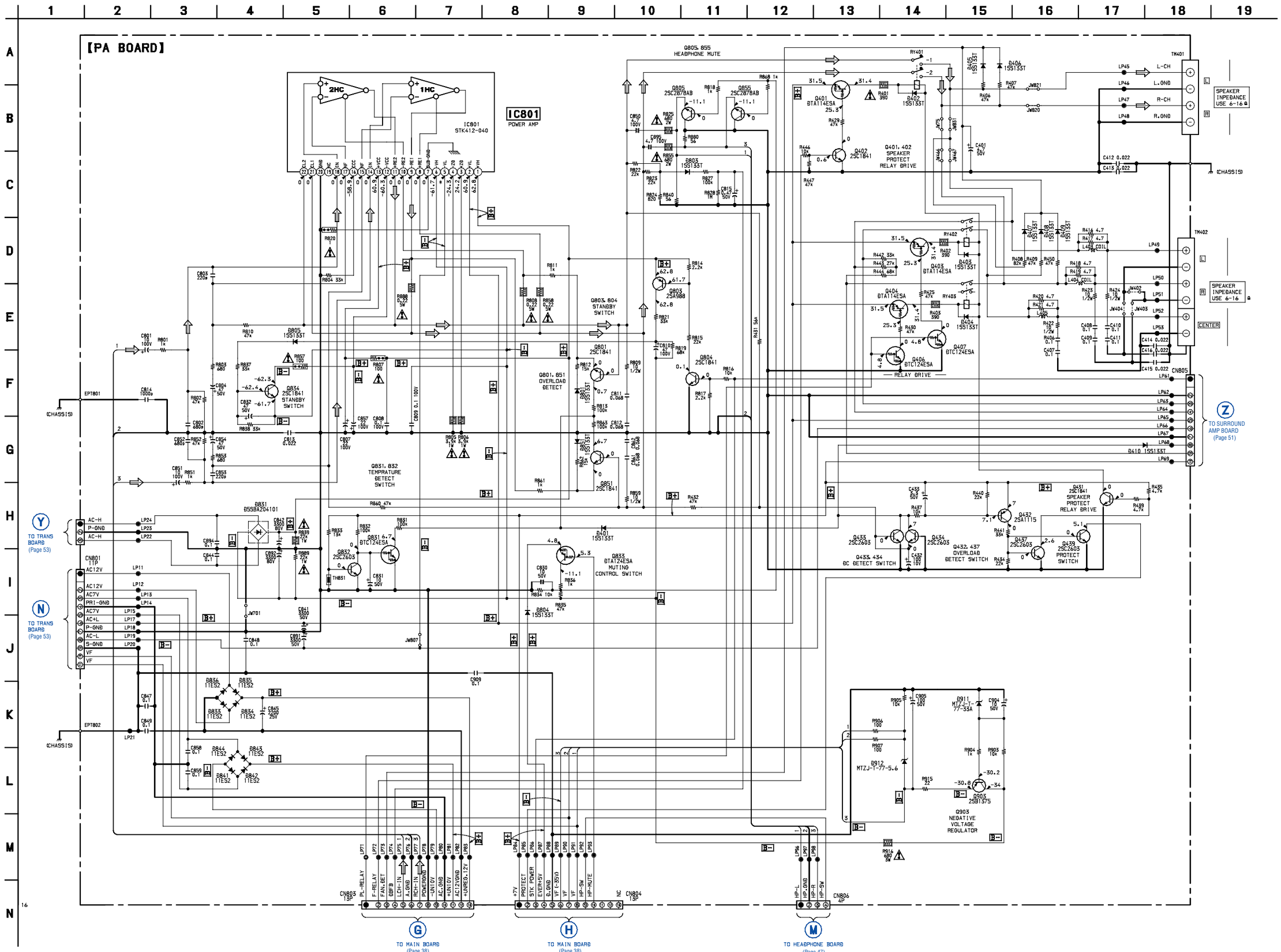
• See page 20 for Circuit Board Location.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D401 | G-4 |
| D402 | C-2 |
| D403 | E-8 |
| D404 | E-7 |
| D405 | A-1 |
| D406 | B-1 |
| D407 | B-4 |
| D408 | B-4 |
| D409 | C-5 |
| D410 | G-4 |
| D801 | F-4 |
| D802 | E-5 |
| D803 | E-6 |
| D804 | G-2 |
| D805 | E-3 |
| D831 | I-8 |
| D833 | I-5 |
| D834 | I-5 |
| D835 | I-5 |
| D836 | I-5 |
| D841 | I-3 |
| D842 | I-2 |
| D843 | I-3 |
| D844 | I-3 |
| D851 | F-4 |
| D852 | E-5 |
| D911 | I-9 |
| D912 | I-8 |
| IC801 | D-4 |
| Q401 | C-1 |
| Q402 | C-1 |
| Q403 | E-8 |
| Q404 | E-7 |
| Q406 | E-7 |
| Q407 | E-8 |
| Q431 | F-8 |
| Q432 | G-8 |
| Q433 | G-8 |
| Q434 | G-7 |
| Q437 | G-8 |
| Q439 | G-8 |
| Q801 | F-3 |
| Q803 | F-6 |
| Q804 | F-6 |
| Q805 | H-3 |
| Q831 | F-2 |
| Q832 | F-2 |
| Q833 | G-2 |
| Q834 | F-3 |
| Q851 | F-4 |
| Q855 | H-3 |
| Q903 | I-10 |
| Q904 | I-8 |



## 6-27. SCHEMATIC DIAGRAM PA Board




The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

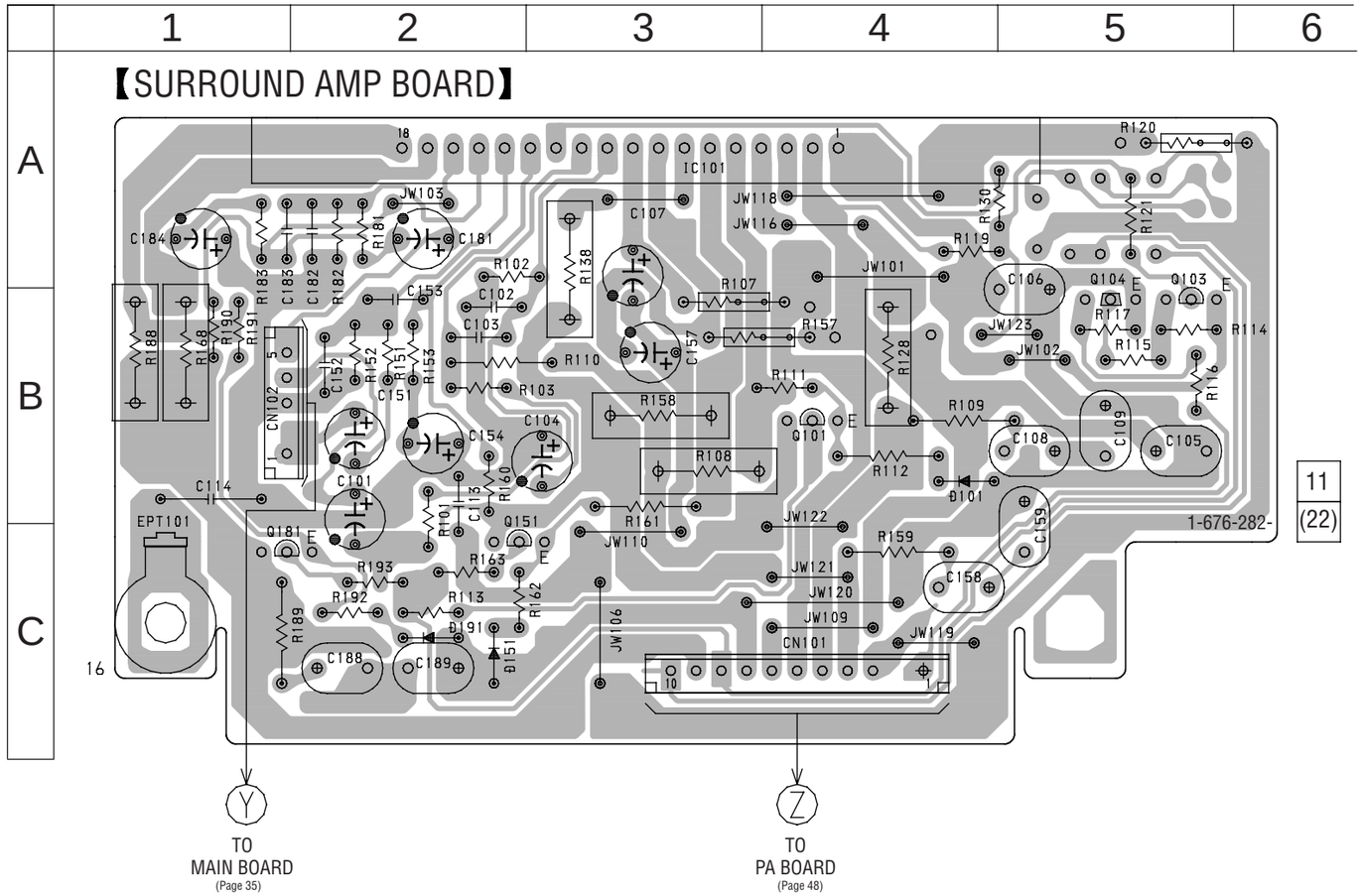
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: FM

## 7-28. PRINTED WIRING BOARD SURROUND AMP Board

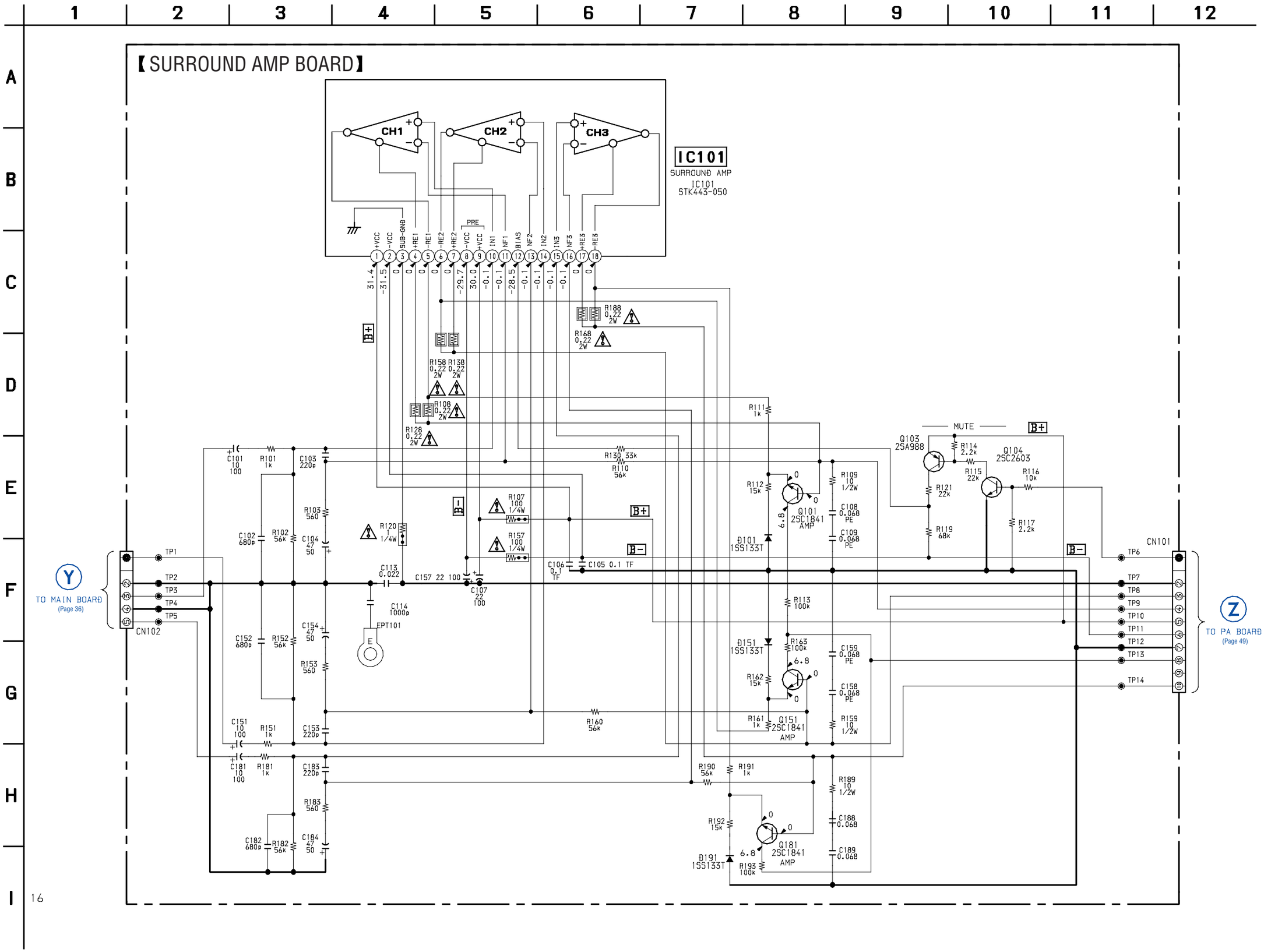
• See page 20 for Circuit Board Location.

• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D101 | B-4 |
| D151 | C-2 |
| D191 | C-2 |
| IC101 | A-3 |
| Q101 | B-4 |
| Q103 | A-5 |
| Q104 | A-5 |
| Q151 | C-2 |
| Q181 | C-1 |



## 6-29. SCHEMATIC DIAGRAM SURROUND AMP Board

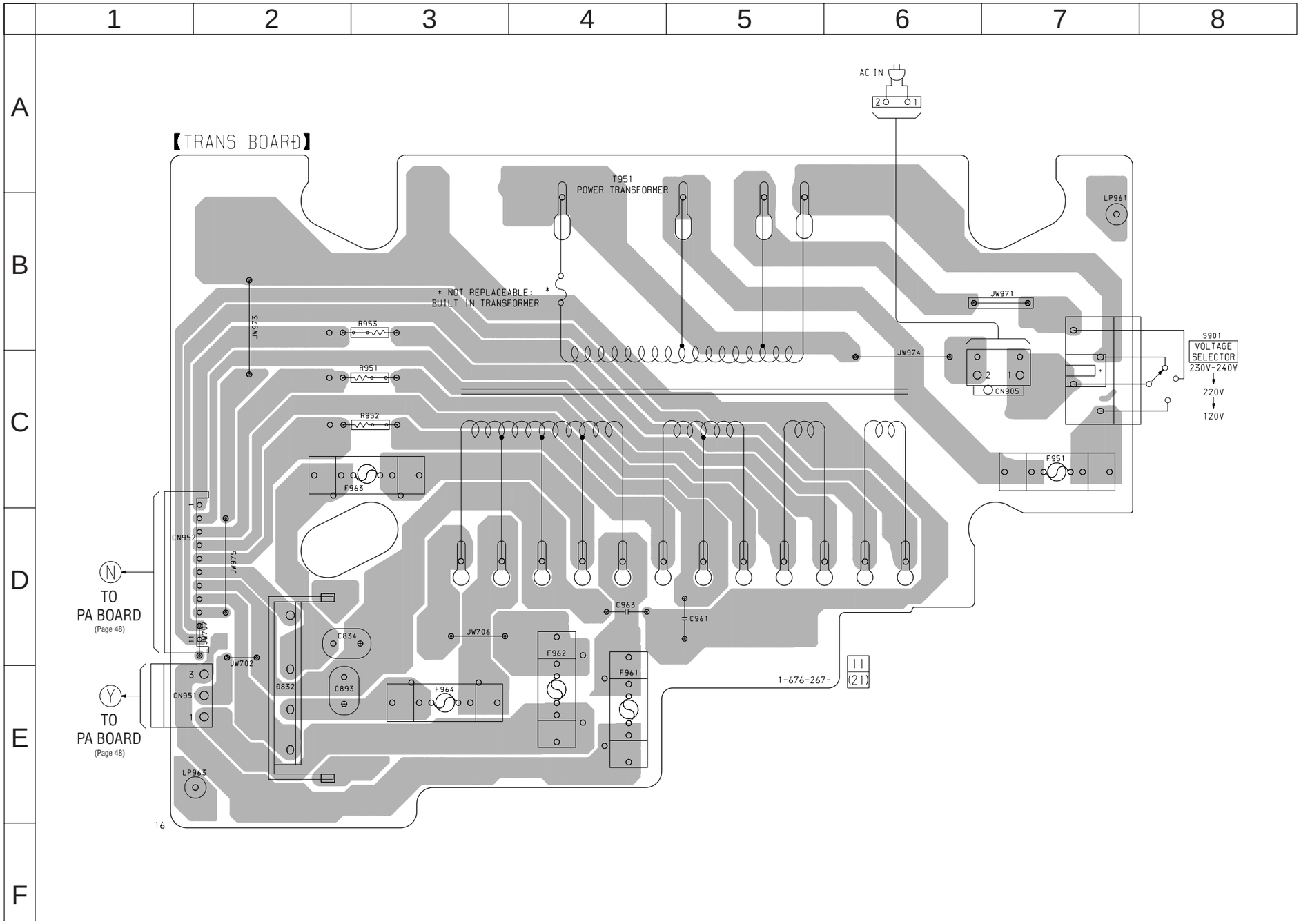


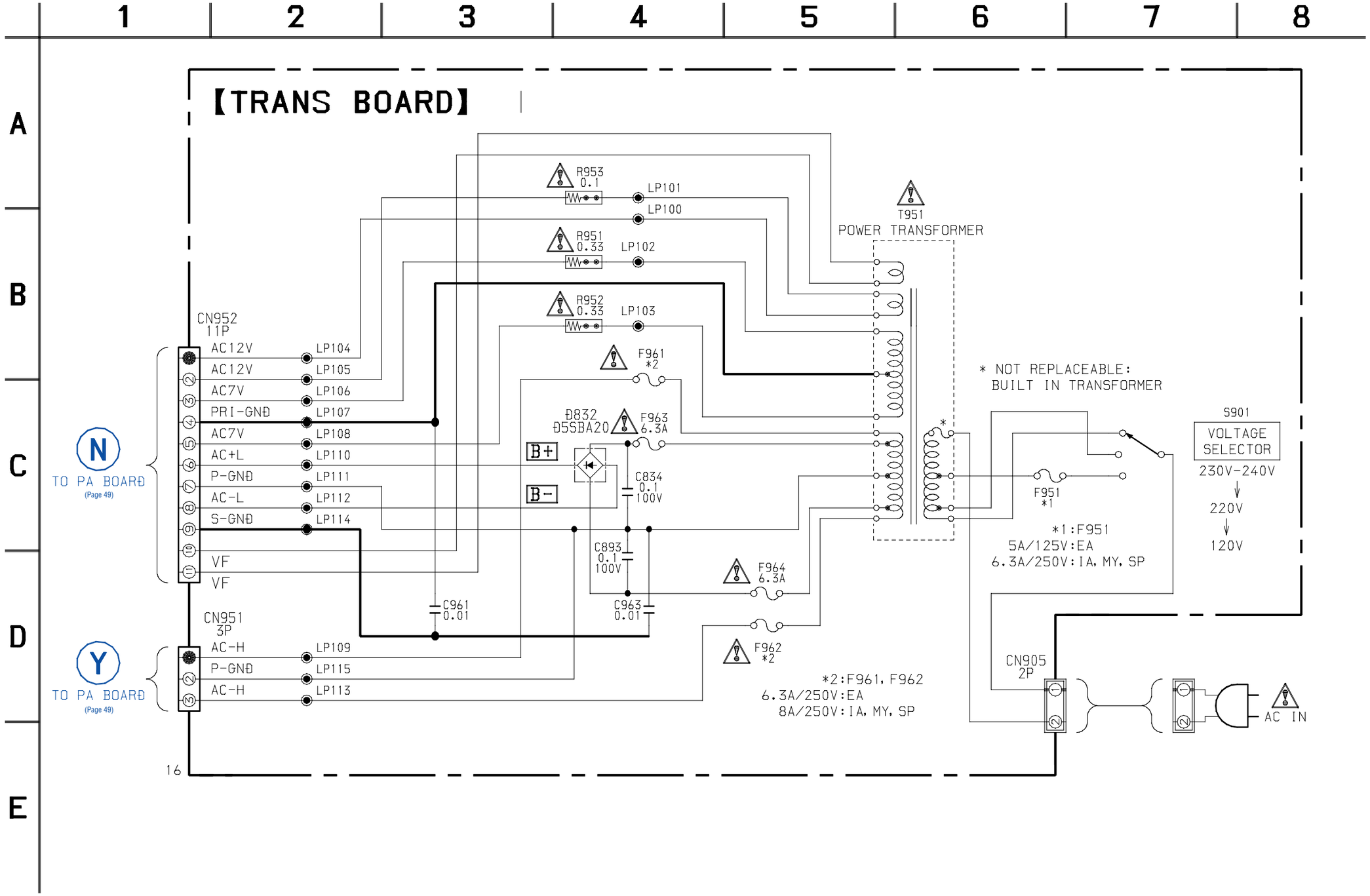

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM

## 6-30. PRINTED WIRING BOARD TRANS Boards

• See page 20 for Circuit Board Location.



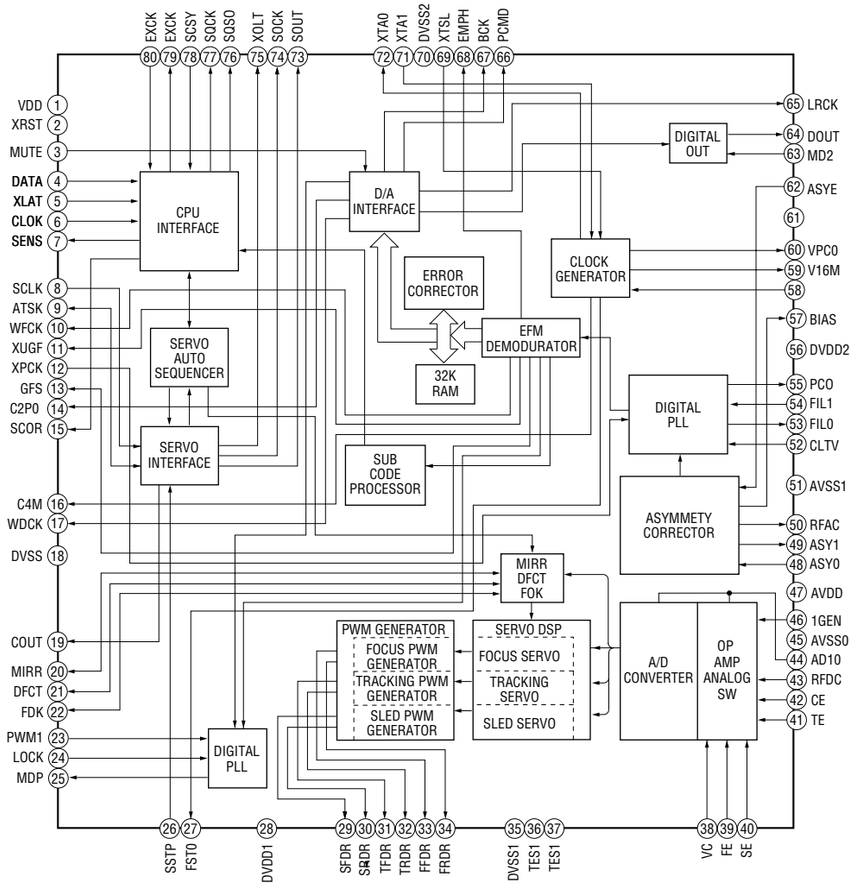



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

## 6-32. IC BLOCK DIAGRAMS

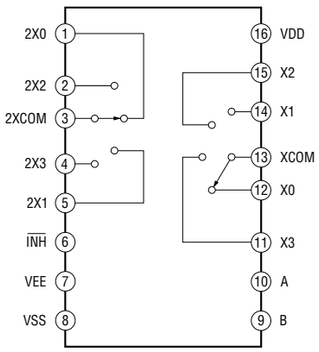
**– BD Board –**

**IC101 CXD3008Q**



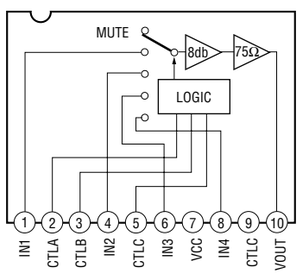

**– MAIN Board –**

**IC181 MC14052BF**



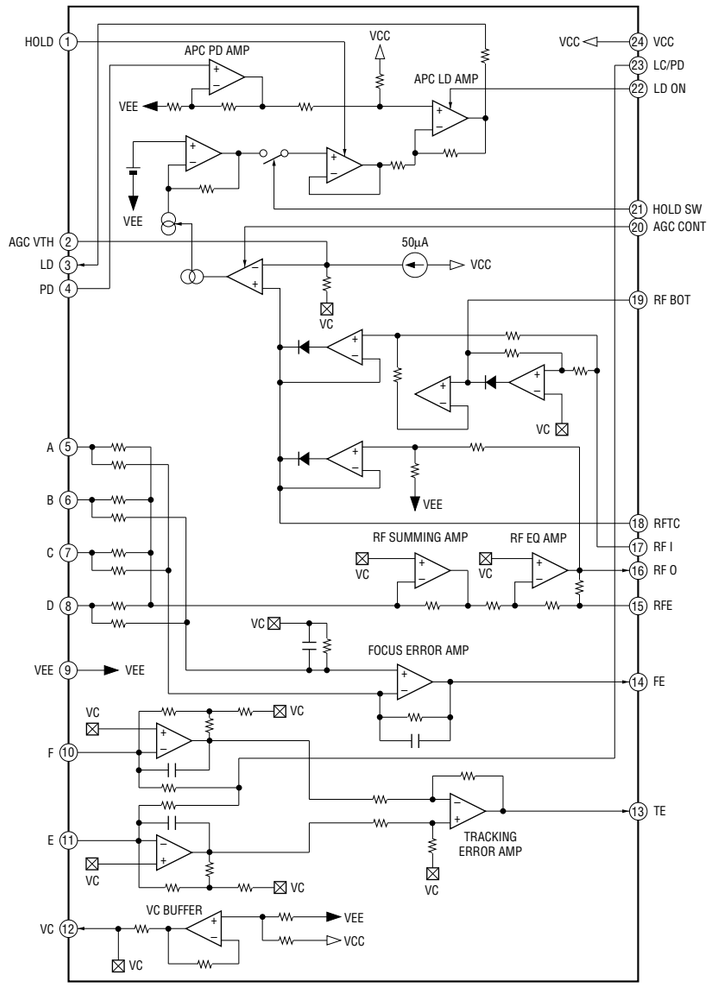

**– MAIN Board –**

**IC191 BA7615N**



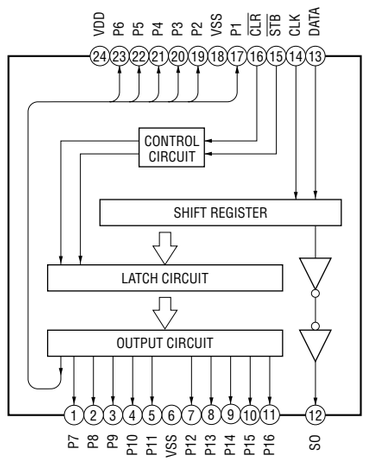

**– BD Board –**

**IC103 CXA2568M-T6**



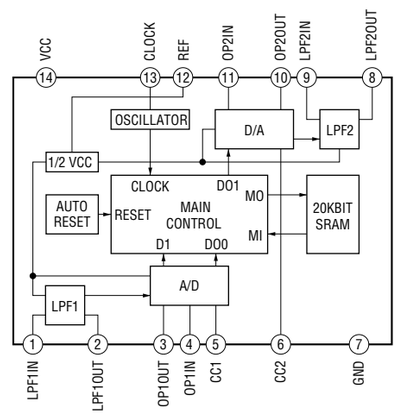

**– PANEL VR Board –**

**IC701 NJU3716L**



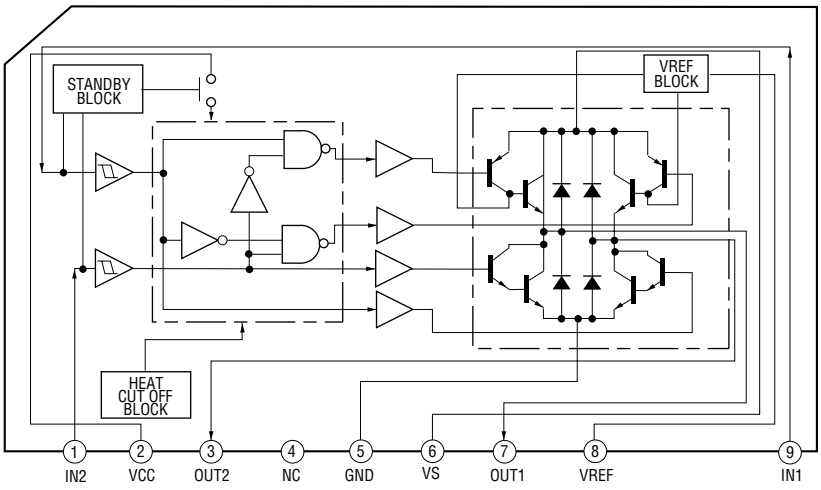

**– MIC Board –**

**IC851 M65850P**



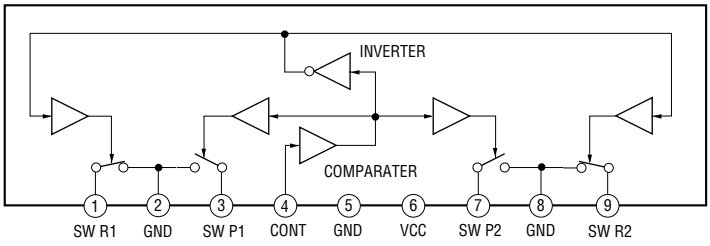
**– CD MOTOR Board –**

**IC201 TA8409S**



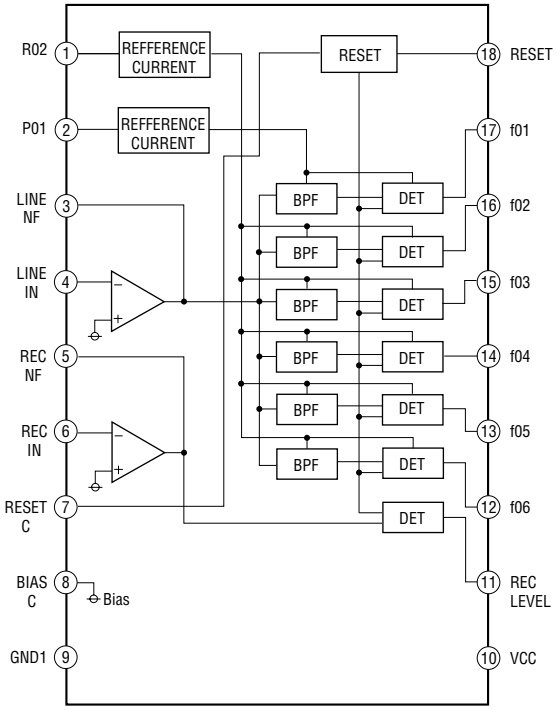

**– AUDIO Board –**

**IC602 µPC1330HA**



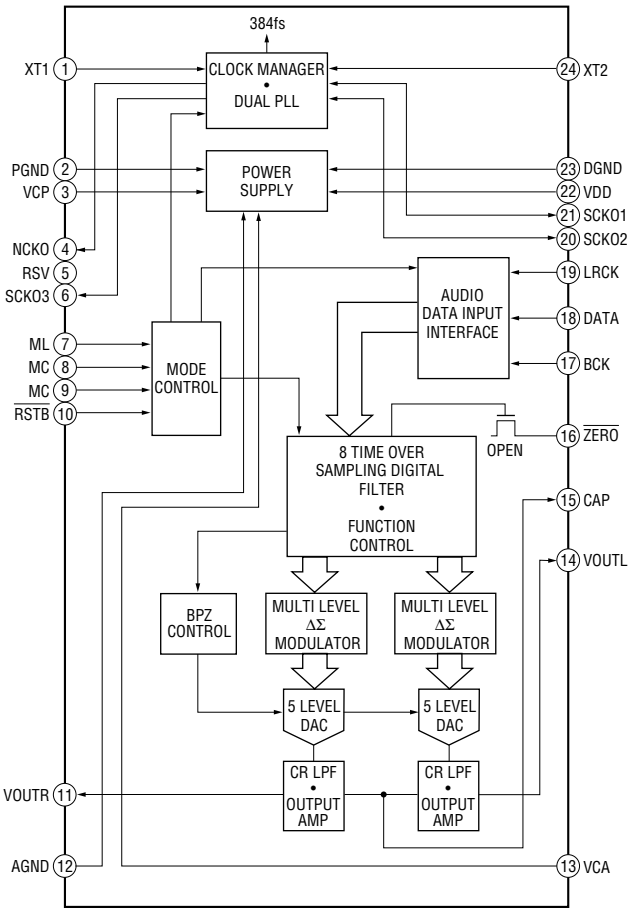

**– PANEL FL Board –**

**IC603 BA3830F**




**– VIDEO Board –**

**IC509 PCM1727E-2/T2**



## 6-33. IC PIN FUNCTION DESCRIPTION

### • MAIN BOARD IC501 M30622MA-A26FP

| Pin No. | Pin Name | I/O | Function |
|---|---|---|---|
| 1 | POWER | O | Power amp ON/OFF signal output |
| 2 | POWER | O | Power ON/OFF signal output |
| 3 | F-RELAY | O | Front speaker relay control output |
| 4 | REAR-RELAY | O | Rear speaker relay control output (Not used) |
| 5 | CD-POWER | O | CD power on signal output |
| 6 | LINE-MUTE | O | Line mute signal output |
| 7 | DBFB-H/L | O | DBFB H/L select signal output |
| 8 | — | — | Connected to ground |
| 9 | — | — | Connected to ground |
| 10 | XC-IN | I | X'tal (32.768 KHz) (SUB CLOCK) |
| 11 | XC-OUT | O | |
| 12 | RESET | I | System reset signal input |
| 13 | X-OUT | O | X'tal (16MHz) (MAIN SYSTEM CLOCK) |
| 14 | VSS | — | Ground |
| 15 | X-IN | I | X'tal (16MHz) (MAIN SYSTEM CLOCK) |
| 16 | VDD | — | Power supply (+5V) |
| 17 | NMI | I | Not used |
| 18 | WAKE UP | I | WAKE UP signal input |
| 19 | SCOR | I | CD Q-data request signal input |
| 20 | RDS-INT | I | RDS data interrupt input |
| 21 | RDS-DATA | I | RDS data interrupt input |
| 22 | AC-CUT | I | AC cut ON (L)/OFF (H) check |
| 23 | PL-CLK | O | Clock output to pro-logic (Not used) |
| 24 | PL-DATA | O | Data output to pro-logic (Not used) |
| 25 | PL-LAT | O | Latch signal output to pro-logic (Not used) |
| 26 | TIMER LED | O | Not used |
| 27 | PROTECT | I | Speaker protect signal input |
| 28 | V MUTE | O | Video mute signal output |
| 29 | IIC-CLK | O | $I^2C$ SCL |
| 30 | IIC-DATA | O | $I^2C$ SDA |
| 31 | — | — | Not used |
| 32 | SQ-DATA | I | Subcode Q data clock input (CD data) |
| 33 | SQ-CLK | O | Subcode Q data clock output (CD data clock) |
| 34 | SW-MODE | O | SW-MODE music/movie select signal output |
| 35 | CD-DATA | O | CD data output |
| 36 | H/P IN | I | Head phone detect |
| 37 | CD-CLK | O | CD clock output |
| 38 | 493-LAT | O | Latch signal output for IC101 (M62493FP) |
| 39 | CLOCK-OUT | O | Clock out signal check |
| 40 | NO-USE | — | Not used |
| 41 | NO-USE | — | Not used |
| 42 | FL OFF | O | Fluorescent indicator tube filament on/off signal output |
| 43 | STBY RELAY | O | Main POWER on/off signal output |
| 44 | BASS FREQ | O | FREQ high/low signal output (Not used) |
| 45 | FUNC SEL 1 | O | Function select signal output |
| 46 | FUNC SEL 0 | O | Function select signal output |
| 47 | 493-DATA | O | Data signal output for IC101 (M62493FP) |
| 48 | 493-CLK | O | Clock signal output for IC101 (M62493FP) |
| 49 | ST-MUTE | O | Tuner mute signal output |
| 50 | STEREO | I | Stereo detection for tuner |

| Pin No. | Pin Name | I/O | Function |
|---|---|---|---|
| 51 | TUNED | I | Tuned detection for tuner |
| 52 | ST-CE | O | Tuner chip enable output |
| 53 | ST-DOUT | O | Tuner data output |
| 54 | ST-DIN | I | Tuner data input |
| 55 | ST-CLK | O | Tuner clock output |
| 56 | SENS | I | BD Condition signal input |
| 57 | HOLD | O | MODE signal output |
| 58 | XLT | O | CD latch signal output |
| 59 | XRST | O | CD reset signal output |
| 60 | DISC-SENS | I | Slit sensor of disc table input (Connected to ground) |
| 61 | T-SENS | I | CD table detection signal input |
| 62 | VDD | — | Power supply (+5V) |
| 63 | TBL-L | O | Table motor control output |
| 64 | VSS | I | Ground |
| 65 | TBL-R | O | Table motor control output |
| 66 | LOAD-OUT | O | Loading motor control signal output (Not used) |
| 67 | LOAD-IN | O | Loading motor control signal input (Not used) |
| 68 | ENC 3/UP-SW | I | Disc tray UP signal input. |
| 69 | ENC 2/DISC-LED | I | Disc LED signal output |
| 70 | ENC 1 | I | (Connected to ground) |
| 71 | OUT-OPEN | O | (Connected to ground) Loading out detection signal output |
| 72 | B-TRG | O | B deck trigger motor control output |
| 73 | A-TRG | O | A deck trigger motor control output |
| 74 | CAP-M-COT2 | O | Capstan motor REW/FWD/STOP signal output |
| 75 | CAP-M-COT1 | O | Capstan motor REW/FWD/STOP signal output |
| 76 | CAP-M-H/L | O | Capstan motor High/Low speed select signal output |
| 77 | AMS-IN | I | AMS signal input |
| 78 | TC-MUTE | O | TC line mute ON/OFF selection output |
| 79 | R/PB/PAS | O | REC/PB/PASS selection output |
| 80 | NR-ON/OFF | O | DOLBY NR ON/OFF signal output |
| 81 | REC-MUTE | O | REC mute ON/OFF selection output |
| 82 | BIAS | O | Bias ON/OFF signal output |
| 83 | EQ-H/N | O | Equalizer High/Normal select output |
| 84 | PB-A/B | O | PB A deck/B deck select output |
| 85 | ALC | O | ALC ON/OFF output signal |
| 86 | B-PLAY-SW | I | B deck play detect |
| 87 | A-PLAY-SW | I | A deck play detect |
| 88 | A-HALF | I | A Deck half detector signal input |
| 89 | B-HALF | I | B Deck half detector signal input |
| 90 | B-SHUT | I | B Deck reel pulse detector |
| 91 | A-SHUT | I | A Deck reel pulse detector |
| 92 | SOFT-TEST | O | Software test port (Not used) |
| 93 | HP-MUTE | O | Head phone mute signal output |
| 94 | KEY/CD-ADJ | I | KEY (use the jig)/CD adjust point port |
| 95 | MODEL IN | I | MODEL input |
| 96 | AVSS | — | Analog ground |
| 97 | SPEC-IN | I | Specifications input |
| 98 | VREF | I | Analog reference voltage input |
| 99 | AVCC | — | Analog power supply (+5V) |
| 100 | TC-RELAY | O | REC/PB head selection output for IC602 |

- **PANEL FL BOARD IC601 TMP88CC76F-1A25**
  **(FLUORESCENT INDICATOR TUBE DRIVE, LED DRIVE, KET CONTROL)**

| Pin No. | Pin Name | I/O | Function |
|---|---|---|---|
| 1 | SIRCS | I | Remote commander signal input |
| 2 | JOG A | I | Rotary encoder (S702) pulse input |
| 3 | LED SCK | O | LED clock signal output |
| 4 | LED LATCH | O | LED latch signal output |
| 5 | LED DAT | O | LED serial data output |
| 6 | LED POWER | — | Not used |
| 7 | LED SEL | O | LED select signal output |
| 8 | JOG B | I | Rotary encoder (S702) pulse input |
| 9 | VOLUME A | I | Rotary encoder (S701) pulse input |
| 10 | VOLUME B | I | |
| 11 to 15 | KEY 0 to KEY 4 | I | Key input |
| 16 to 20 | BPF 0 to BPF 4 | I | Rec level signal input |
| 21 | ALL BAND | O | Rec level signal output for auto DBDF |
| 22 | WAKE UP | O | Gradation right/WAKE UP signal output |
| 23 | Vss | — | Ground |
| 24 | VAss | — | |
| 25 | VAref | I | Analog reference voltage input |
| 26 | VDD | – | Power supply (+5V) |
| 27 to 40 | GR 3 to GR 16 | O | FL gride signal output |
| 41 | VDD VFT | — | Power supply (+5V) for VFT |
| 42, 43 | GR 1, GR 2 | O | FL gride signal output |
| 44 | SEG 0 | O | FL segment signal output (Not used) |
| 45 to 67 | SEG 1 to SEG 23 | O | FL segment signal output |
| 68 | Vkk | — | Power supply (-25V) for FL segment signal output |
| 69 | Vdd | — | Power supply (+5V) |
| 70 | X in | I | X'tal (12.5MHz) |
| 71 | Vss | — | Ground |
| 72 | X out | O | X'tal (12.5MHz) |
| 73 | RESET | I | Reset signal input from main controller |
| 74 | DAILY LED | O | LED driver output |
| 75 | REC LED | O | |
| 76 | TEST | I | Connected ground |
| 77 | LED-ECO | O | LED driver output |
| 78 | $I^2C$ DATA | I | $I^2C$ SDA input from master controller |
| 79 | $I^2C$ CLK | I | $I^2C$ SCL input from master controller |
| 80 | D-SW | I | Door switch signal input |

## • VIDEO BOARD IC502 M30620MC-A17FP (CD MECHANISM CONTROLLER)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | SENSE | I | Internal status (SENSE) signal input from the CXD3008Q (IC101) |
| 2 | SENSE CLK | O | Sense serial data reading clock signal output to the CXD3008Q (IC101) |
| 3 | DSP DATA | O | Serial data output to the CXD3008Q (IC101) |
| 4 | DSP LATCH | O | Serial data latch pulse output to the CXD3008Q (IC101) |
| 5 | DSP CLK | O | Serial data transfer clock signal output to the CXD3008Q (IC101) |
| 6 | TSENS | I | Disc tray status detection signal input terminal Not used |
| 7 | REMOTE IN | I | Remote control signal input terminal Not used (open) |
| 8 | BYTE | I | External data bus line byte selection signal input "L": 16 bit, "H": 8 bit (fixed at "L") |
| 9 | VSS | — | Ground terminal |
| 10 | DSP MUTE | O | Muting on/off control signal output to the CXD3008Q (IC101) "H": muting on |
| 11 | CTRL1 | O | Clock selection signal output to the CXD3008Q (IC101)<br>"L": 16.9344 MHz (double speed), "H": 33.8688 MHz |
| 12 | XRESET | I | Reset signal input from the system controller (IC501) "L": reset<br>For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 13 | XOUT | O | Main system clock output terminal (10 MHz) |
| 14 | VSS | — | Ground terminal |
| 15 | XIN | I | Main system clock input terminal (10 MHz) |
| 16 | VCC | — | Power supply terminal (+5V) |
| 17 | NMI | I | Non-maskable interrupt input terminal (fixed at "H" in this set) |
| 18 | SCOR | I | Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC101) |
| 19 | DSENS | I | Disc status detection signal input terminal Not used |
| 20 | CL680 HINT | I | Interrupt request signal input from the MPEG video/audio decoder (IC505) |
| 21 | CL680 SEL | O | Command selection signal output to the MPEG video/audio decoder (IC505) |
| 22 | DF LATCH | O | Serial data latch pulse output to the D/A converter (IC509) "L" active |
| 23 | CL680 HRDY | I | Ready status detection signal input from the MPEG video/audio decoder (IC505) |
| 24 | CL680 RESET | O | Reset signal output to the MPEG video/audio decoder (IC505) "L": reset |
| 25 | JOG1 | I | Rotary encoder jog dial pulse input terminal Not used (fixed at "H") |
| 26 | JOG2 | I | Rotary encoder jog dial pulse input terminal Not used (fixed at "H") |
| 27 | CTRL2 | O | Laser power selection signal output to the CXA2568M (IC103) "H": double speed |
| 28 | LDON | O | Laser on/off selection signal output to the CXA2568M (IC103) "H": laser on |
| 29 | CLK | I/O | Communication data reading clock signal input or transfer clock signal output with the system controller (IC501) and fluorescent indicator tube driver (IC601) |
| 30 | DATA | I/O | Communication data bus with the system controller (IC501) and fluorescent indicator tube driver (IC601) |
| 31 | DATA1O | O | Serial data output to the MPEG video/audio decoder (IC505) and D/A converter (IC509) |
| 32 | DATA1I | I | Serial data input from the MPEG video/audio decoder (IC505) |
| 33 | CLK1 | O | Serial data transfer clock signal output to the MPEG video/audio decoder (IC505) and D/A converter (IC509) |
| 34 | SHARPNESS | O | Sharpness control signal output of the video signal (Y signal) "H" active ("L": normal) |
| 35 | XVLEVEL. DOWN | O | Not used (open) |
| 36 | SUBQ DATA | I | Sub-code Q data input from the CXD3008Q (IC101) |
| 37 | SUBQ CLK | O | Sub-code Q data reading clock signal output to the CXD3008Q (IC101) |
| 38 | P.ON | O | Power on/off control signal output terminal Not used (open) |
| 39 | BUS XRDY | I | Ready signal input terminal Not used (fixed at "H") |
| 40 | BUS | O | Not used (open) |
| 41 | BUS XHOLD | I | Hold signal input terminal Not used (fixed at "H") |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 42, 43 | BUS | O | Not used (open) |
| 44 | SHIMUKE | I | Destination setting terminal "L": Chinese, "H": English (fixed at "H" in this set) |
| 45 | BUS | I | Vertical synchronized signal input from the MPEG video/audio decoder (IC505) "L" active |
| 46 | BUS XWRL | O | Not used (open) |
| 47 | LO.BOOST | O | Low boost control signal output terminal Not used (open) |
| 48 | AUDIO MUTE | O | Audio muting on/off control signal output terminal "L": muting on Not used (open) |
| 49 | LOAD OUT | O | Loading motor drive signal output terminal Not used (open) |
| 50 | LOAD IN | O | Loading motor drive signal output terminal Not used (open) |
| 51 | INSW | I | Disc detection (load in) switch input terminal Not used (fixed at "H") |
| 52 | OUTSW | I | Disc detection (load out) switch input terminal Not used (fixed at "H") |
| 53 | MODEL1 | I | Destination setting terminal (fixed at "L") |
| 54 | MODEL2 | I | Destination setting terminal (fixed at "L") |
| 55 | TBLL | O | Table motor drive signal output terminal Not used (open) |
| 56 | TBLR | O | Table motor drive signal output terminal Not used (open) |
| 57 to 59 | ENC1 to ENC3 | I | Disc tray address detection signal input terminal Not used |
| 60, 61 | NCO | O | Not used (open) |
| 62 | VCC | — | Power supply terminal (+5V) |
| 63 | NCO | O | Not used (open) |
| 64 | VSS | — | Ground terminal |
| 65 | VMUTE | O | Video muting on/off control signal output terminal "L": muting on |
| 66 to 71 | A6 to A1 | O | Address signal output for the external device Not used (open) |
| 72 | UTOI | O | Not used (open) |
| 73 | TEST LED | O | LED drive signal output for the self diagnosis indicator (D502) Normally: "L" (LED on) |
| 74 | TEST1 | I | Setting terminal for the test mode 1 (for VCD check)<br>Normally: fixed at "H" ("L": test mode) |
| 75 | TEST2 | I | Setting terminal for the test mode 2 (for SERVO check)<br>Normally: fixed at "H" ("L": test mode) |
| 76 | TEST3 | I | Setting terminal for the test mode 3 Normally: fixed at "H" ("L": test mode)<br>Not used (fixed at "H") |
| 77 | $\overline{\text{DEVICE RESET}}$ | O | System reset signal output to the CXD3008Q (IC101), BA5974FP (IC102) and D/A converter (IC509) "L": reset |
| 78 | STANDBY | O | Standby on/off control signal output terminal Not used (open) |
| 79 | FL CS | O | Chip select signal output terminal Not used (open) |
| 80 | FLBLK | O | Blank control signal output terminal Not used (open) |
| 81 to 88 | D7 to D0 | I/O | Two-way data bus with the external device Not used (open) |
| 89 | MIC CTRL | O | Mic control signal output terminal Not used |
| 90 to 92 | KEY1 to KEY3 | I | Key input terminal Not used (fixed at "H") |
| 93 | NT/PAL | I | Video system select switch (S501) input terminal<br>"L": PAL, "H": NTSC, Center voltage: AUTO |
| 94 | MUSIC VOL | I | Volume input terminal Not used (fixed at "H") |
| 95 | KEY4 | I | Key input terminal Not used (fixed at "H") |
| 96 | AVSS | — | Ground terminal (for A/D conversion) |
| 97 | MODE. SW | I | Mode switch input terminal Not used |
| 98 | VREF | I | Reference voltage (+5V) input terminal (for A/D conversion) |
| 99 | AVCC | — | Power supply terminal (+5V) (for A/D conversion) |
| 100 | AMP. ON | O | Power amplifier on/off selection signal output terminal Not used (open) |

• **VIDEO BOARD IC505 CL680T-D1 (MPEG VIDEO/AUDIO DECODER, VIDEO SIGNAL PROCESSOR)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | NC | O | Not used (open) |
| 2 | VSS | — | Ground terminal |
| 3 | CD-BCK | I | CD decode bit clock signal (2.8224 MHz) input from the CXD3008Q (IC101) |
| 4 | CD-DATA | I | CD decode data input from the CXD3008Q (IC101) |
| 5 | CD-LRCK | I | CD decode L/R sampling clock signal (44.1 kHz) input from the CXD3008Q (IC101) |
| 6 | CD-C2PO | I | CD decode C2 error data input from the CXD3008Q (IC101) |
| 7 to 9 | NC | O | Not used (open) |
| 10 to 15 | MD0 to MD5 | I/O | Two-way data bus with the D-RAM (IC507) Data input from the program ROM (IC506) |
| 16 | VSS | — | Ground terminal |
| 17 | MD6 | I/O | Two-way data bus with the D-RAM (IC507) Data input from the program ROM (IC506) |
| 18 | VDD3 | — | Power supply terminal (+3.3V) |
| 19 | MD7 | I/O | Two-way data bus with the D-RAM (IC507) Data input from the program ROM (IC506) |
| 20 | VSS | — | Ground terminal |
| 21 | MD8 | I/O | Two-way data bus with the D-RAM (IC507) Data output to the program ROM (IC506) |
| 22 | VDD3 | — | Power supply terminal (+3.3V) |
| 23 to 28 | MD9 to MD14 | I/O | Two-way data bus with the D-RAM (IC507) Data output to the program ROM (IC506) |
| 29 | MD15 | I/O | Two-way data bus with the D-RAM (IC507) |
| 30 to 36 | NC | O | Not used (open) |
| 37 | $\overline{\text{MCE}}$ | O | Chip enable signal output to the program ROM (IC506) |
| 38 | $\overline{\text{MWE}}$ | O | Write enable signal output to the D-RAM (IC507) |
| 39 | VSS | — | Ground terminal |
| 40 | $\overline{\text{CAS}}$ | O | Column address strobe signal output to the D-RAM (IC507) |
| 41 | VDD3 | — | Power supply terminal (+3.3V) |
| 42 | $\overline{\text{RAS0}}$ | O | Row address strobe signal output to the D-RAM (IC507) |
| 43 | $\overline{\text{RAS1}}$ | O | Row address strobe signal output terminal Not used (open) |
| 44, 45 | MA10, MA9 | O | Address signal output to the program ROM (IC506) |
| 46 | MA8 | O | Address signal output to the program ROM (IC506) and D-RAM (IC507) |
| 47 | VSS | — | Ground terminal |
| 48 | MA7 | O | Address signal output to the program ROM (IC506) and D-RAM (IC507) |
| 49 | VDD3 | — | Power supply terminal (+3.3V) |
| 50 to 52 | MA6 to MA4 | O | Address signal output to the program ROM (IC506) and D-RAM (IC507) |
| 53 | VSS | — | Ground terminal |
| 54 | MA3 | O | Address signal output to the program ROM (IC506) and D-RAM (IC507) |
| 55 | VDD3 | — | Power supply terminal (+3.3V) |
| 56 to 58 | MA2 to MA0 | O | Address signal output to the program ROM (IC506) and D-RAM (IC507) |
| 59 | PGIO7 | I/O | Not used (open) |
| 60 | $\overline{\text{RESET}}$ | I | Reset signal input from the CD mechanism controller (IC502) “L”: reset |
| 61 | VDDMAX-IN | I | Fix the maximum input voltage each input terminal and in/out terminal |
| 62 to 64 | NC | O | Not used (open) |
| 65 | AGND-DAC | — | Ground terminal (for D/A converter) |
| 66 | AVDD-DAC | — | Power supply terminal (+3.3V) (for D/A converter) |
| 67 | COMPOS OUT | O | Composite video signal output terminal Not used (open) |
| 68 | AGND-DAC | — | Ground terminal (for D/A converter) |
| 69 | Y-OUT | O | Luminance video signal output terminal |
| 70 | AVDD-DAC | — | Power supply terminal (+3.3V) (for D/A converter) |
| 71 | AGND-DAC | — | Ground terminal (for D/A converter) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 72 | RREF | I | Fix the video signal output level control |
| 73 | VREF | O | Reference voltage (+1.235V) output terminal |
| 74 | AVDD-DAC | — | Power supply terminal (+3.3V) (for D/A converter) |
| 75 | C-OUT | O | Chrominance video signal output terminal |
| 76 | AGND-DAC | — | Ground terminal (for D/A converter) |
| 77 | CLK-SEL0 | I | GCK (pin ⑮) selection terminal "L": external clock, "H": internal clock (fixed at "H") |
| 78 | CLK-SEL1 | I | DA-XCLK (pin ⑯) selection (1) terminal Fixed at "H" in this set |
| 79 | CLK-SEL2 | I | DA-XCLK (pin ⑯) selection (2) terminal Fixed at "H" in this set |
| 80 | VSS | — | Ground terminal |
| 81 | RESERVED | I | Selection the operation clock 42.336 MHz (fixed at "L") |
| 82 | VDD3 | — | Power supply terminal (+3.3V) |
| 83 | DA-EMP | O | Not used (open) |
| 84 | RESERVED | O | Not used (open) |
| 85 | AGND-PLL | — | Ground terminal (for PLL system) |
| 86 | DA-XCLK | I | Main reference clock signal (16.9344 MHz=384fs) from the D/A converter (IC509) |
| 87 | AVDD-PLL | — | Power supply terminal (+3.3V) (for PLL system) |
| 88 | PGIO4 | I/O | Not used (open) |
| 89 | PGIO5 | I/O | Not used (open) |
| 90 | PGIO6 | I/O | Not used (open) |
| 91 | PGIO0 | I/O | Not used (open) |
| 92 | PGIO8 | I/O | Not used (open) |
| 93 | PGIO2/$\overline{\text{VSYNC}}$/ CSYNC | O | Vertical synchronized signal output to the CD mechanism controller (IC502) |
| 94 | AVDD-PLL | — | Power supply terminal (+3.3V) (for PLL system) |
| 95 to 97 | NC | O | Not used (open) |
| 98 | AGND-PLL | — | Ground terminal (for PLL system) |
| 99 | VSS | — | Ground terminal |
| 100 | NC | O | Not used (open) |
| 101 | PGIO3/$\overline{\text{HSYNC}}$ | I/O | Not used (open) |
| 102 | VDD3 | — | Power supply terminal (+3.3V) |
| 103 | PGIO1/VCK-OUT | I/O | Not used (open) |
| 104 | VSS | — | Ground terminal |
| 105 | GCK | I | Not used (open) |
| 106 | VCK-IN | I | Main clock for video signal processor input from the D/A converter (IC509) (27 MHz) |
| 107 | GCKOUT/DA-EMP | O | Not used (open) |
| 108 | DA-LRCK | O | Digital audio L/R sampling clock signal (44.1 kHz) output to the D/A converter (IC509) |
| 109 | VDDMAX-OUT | O | Fix the maximum output voltage (+5V) certain output terminal |
| 110 | DA-DATA | O | Digital audio data output to the D/A converter (IC509) |
| 111 | DA-BCK | O | Digital audio bit clock signal (2.8224 MHz) output to the D/A converter (IC509) |
| 112 | HD-OUT | O | Serial data output to the CD mechanism controller (IC502) |
| 113 | HRDY | O | Ready signal output to the CD mechanism controller (IC502) |
| 114 | $\overline{\text{HINT}}$ | O | Interrupt request signal output to the CD mechanism controller (IC502) |
| 115 | CDG-SCK | I/O | Not used (open) |
| 116 | VSS | — | Ground terminal |
| 117 | HCK | I | Serial data transfer clock signal input from the CD mechanism controller (IC502) |
| 118 | VDD3 | — | Power supply terminal (+3.3V) |
| 119 | HD-IN | I | Serial data input from the CD mechanism controller (IC502) |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 120 | VDD3 | — | Power supply terminal (+3.3V) |
| 121 | HSEL | I | Command selection signal input from the CD mechanism controller (IC502) |
| 122 | CDG-SDATA | I | Not used (fixed at “L”) |
| 123 | CDG-VFSY | I | Not used (fixed at “L”) |
| 124 | CDG-S0S1 | I | Not used (fixed at “L”) |
| 125 to 128 | NC | O | Not used (open) |

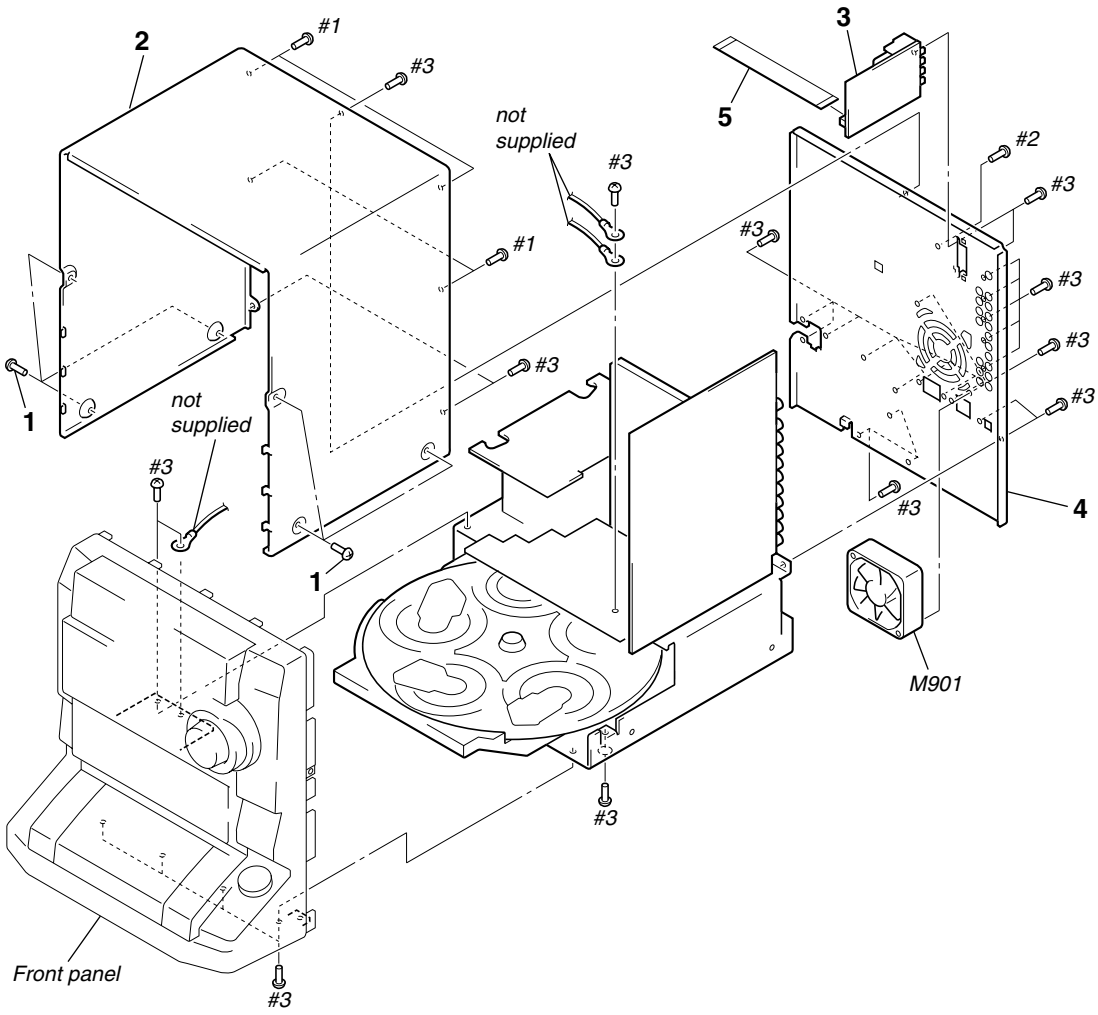
# SECTION 7
# EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  EA : Saudi Arabia model.
  SP : Singapore model.
  MY : Malaysia model.
  IA : Indonesian model.

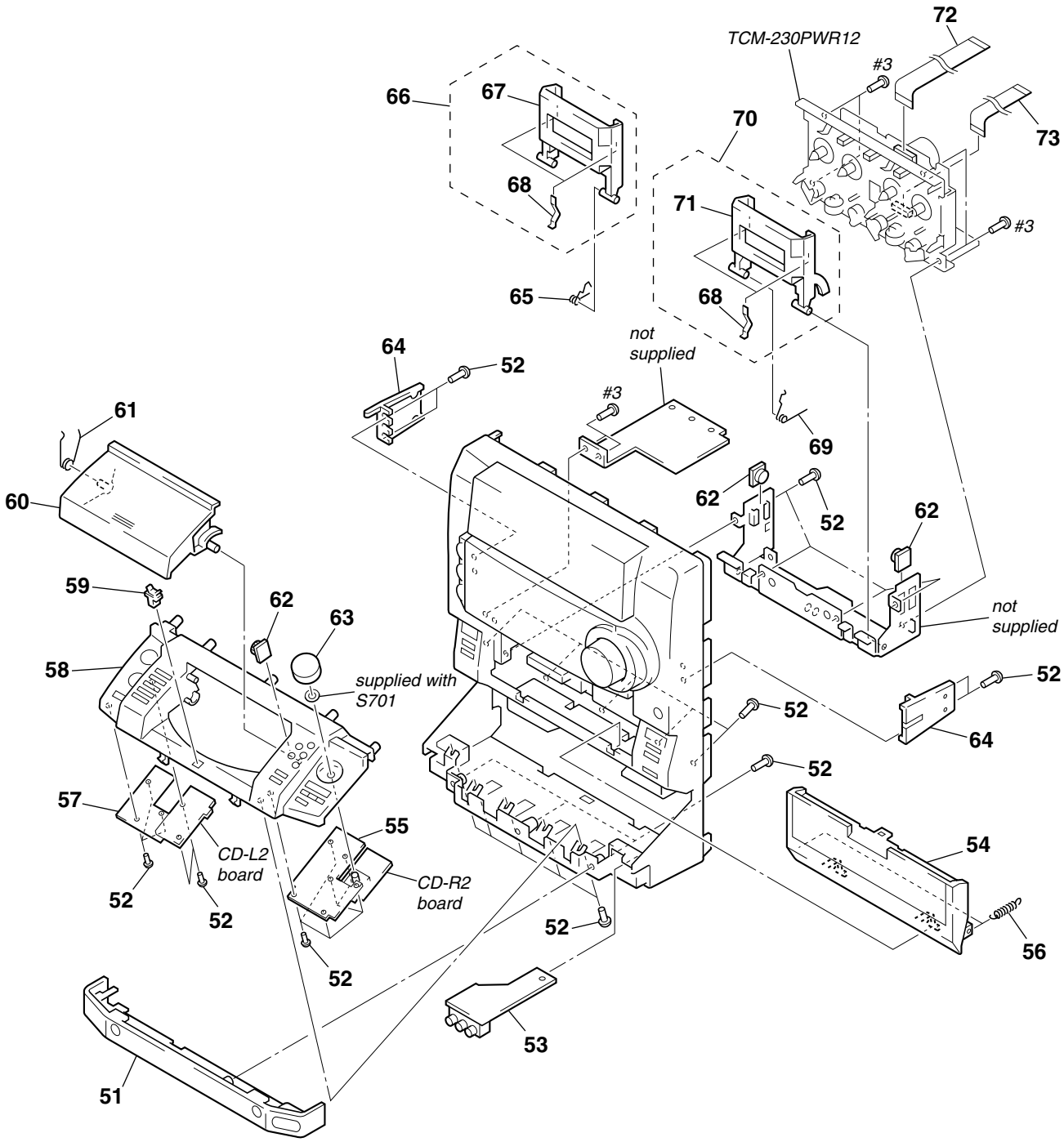
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

## 7-1. CASE, BACK PANEL SECTION




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | 3-363-099-01 | SCREW(CASE 3 TP2) | |
| 2 | 4-214-777-51 | UPPER CASE | |
| 3 | 1-693-488-11 | TUNER(FM/AM) | |
| 4 | 4-227-751-41 | PANEL, BACK (MY,SP) | |
| 4 | 4-227-751-51 | PANEL, BACK (EA) | |
| 4 | 4-227-751-71 | PANEL, BACK (IA) | |
| 5 | 1-769-977-11 | WIRE(FLAT TYPE) (13 CORE) | |
| M901 | 1-763-072-11 | FAN, D.C. | |

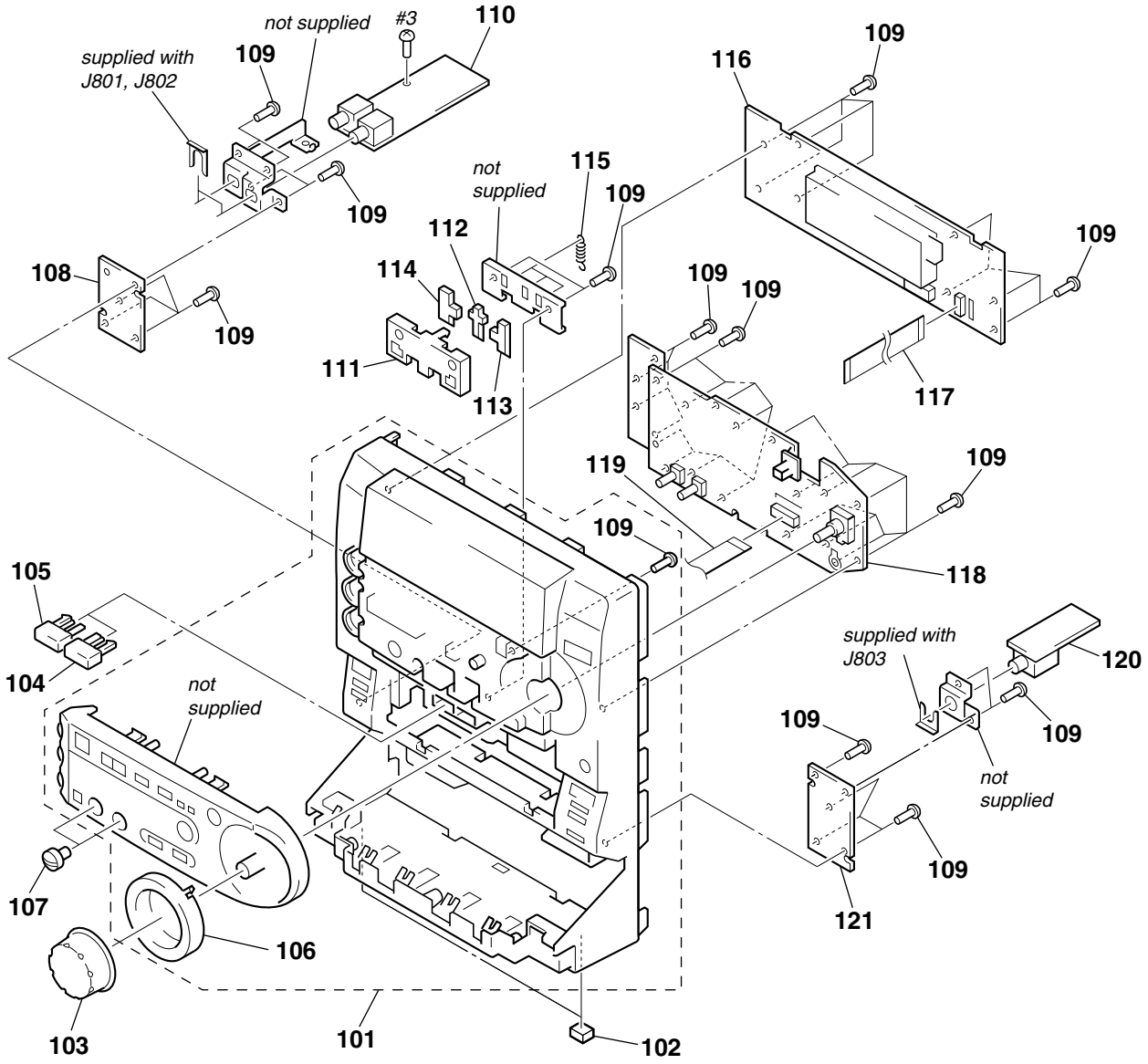
## 7-2. FRONT PANEL SECTION-1




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 51 | 4-226-062-21 | PLATE, ORNAMENTAL | |
| 52 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 53 | 1-676-276-11 | FRONT INPUT BOARD | |
| 54 | X-4952-504-1 | LID(TC) ASSY | |
| 55 | A-4428-119-A | CD-R BOARD, COMPLETE (including CD-R2 BOARD) | |
| 56 | 4-225-521-01 | SPRING (TC-LID) | |
| 57 | A-4428-176-A | CD-L BOARD, COMPLETE (including CD-L2 BOARD) | |
| 58 | X-4952-463-1 | PANEL (CD) ASSY, SUB | |
| 59 | 4-040-472-01 | LATCH, D.C. | |
| 60 | X-4952-528-1 | LID(CD) ASSY | |
| 61 | 4-225-524-01 | SPRING (CD) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 62 | 4-224-104-21 | DAMPER | |
| 63 | 4-225-503-01 | KNOB(CD) | |
| 64 | 4-225-517-01 | HOLDER (CASE) | |
| 65 | 4-225-522-01 | SPRING (DECK-A) | |
| 66 | X-4952-464-1 | HOLDER (DECK-A) ASSY | |
| 67 | 4-225-509-01 | HOLDER (DECK-A) | |
| 68 | 4-959-229-11 | DETENT, CASSETTE | |
| 69 | 4-225-523-01 | SPRING (DECK-B) | |
| 70 | X-4952-465-1 | HOLDER (DECK-B) ASSY | |
| 71 | 4-225-510-01 | HOLDER (DECK-B) | |
| 72 | 1-773-056-11 | WIRE(FLAT TYPE) (17 CORE) | |
| 73 | 1-773-032-11 | WIRE(FLAT TYPE) (15 CORE) | |

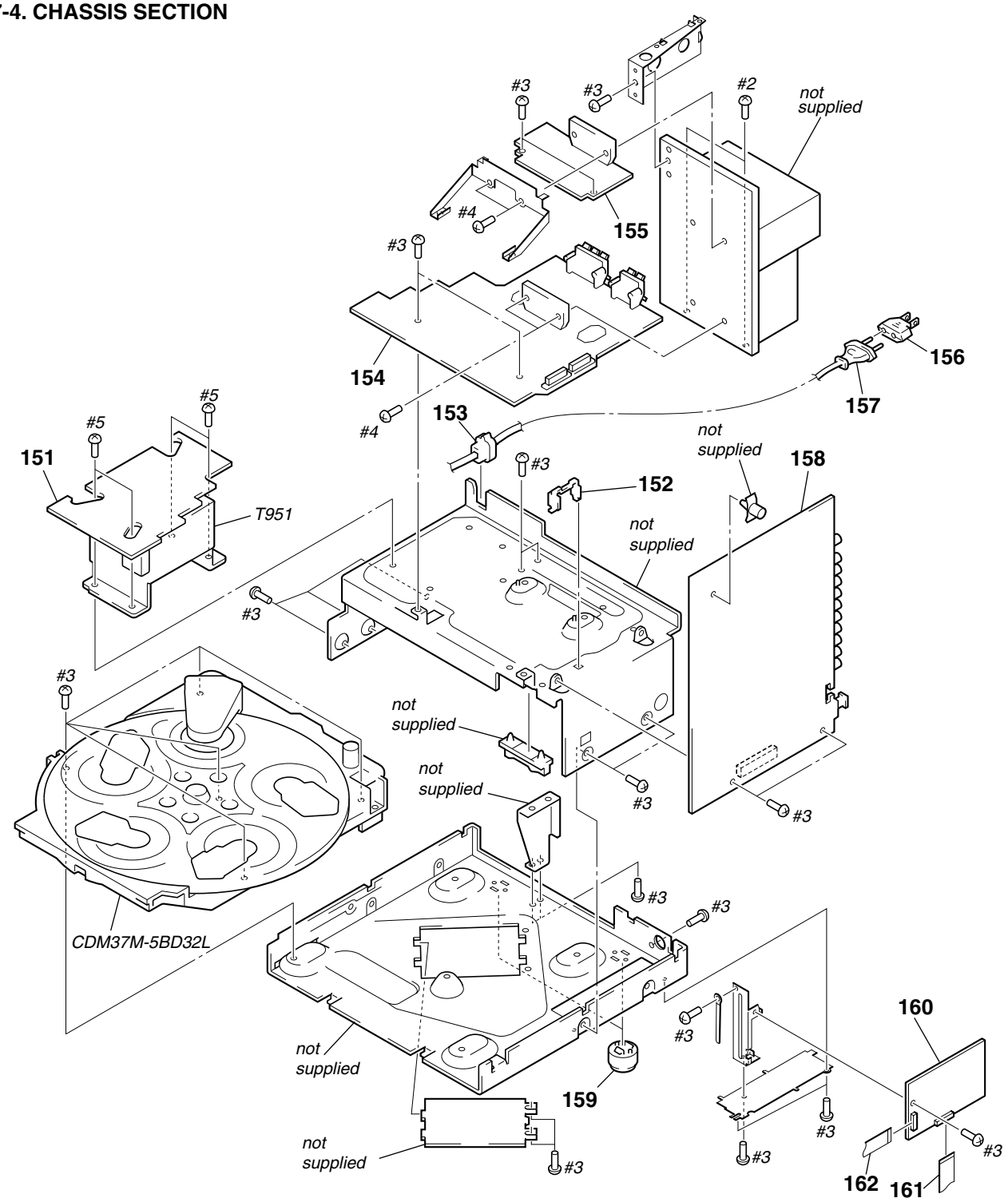
## 7-3. FRONT PANEL SECTION-2




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | X-4952-448-1 | PANEL ASSY, FRONT | |
| 102 | 4-948-236-21 | CUSHION (107) | |
| 103 | 4-225-501-01 | KNOB (VOL) | |
| 104 | 4-226-888-01 | LEVER (EJECT-B) | |
| 105 | 4-226-887-01 | LEVER (EJECT-A) | |
| 106 | 4-225-500-01 | RING (VOL) | |
| 107 | 4-225-502-11 | KNOB (MIC) | |
| 108 | 1-676-274-11 | TC-A BOARD | |
| 109 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 110 | A-4428-233-A | MIC BOARD, COMPLETE | |
| 111 | 4-226-883-01 | COVER (EJECT) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 112 | 4-226-882-01 | LEVER (EJECT-C) | |
| 113 | 4-226-881-01 | LEVER (EJECT-B) | |
| 114 | 4-226-880-01 | LEVER (EJECT-A) | |
| 115 | 4-226-889-01 | SPRING (LEVER) | |
| 116 | A-4428-159-A | PANEL FL BOARD, COMPLETE | |
| 117 | 1-751-688-11 | WIRE (FLAT TYPE) (13 CORE) | |
| 118 | A-4428-144-A | PANEL VR BOARD, COMPLETE | |
| 119 | 1-773-150-11 | WIRE (FLAT TYPE) (21 CORE) | |
| 120 | 1-676-281-11 | HEADPHONE BOARD | |
| 121 | 1-676-275-11 | TC-B BOARD | |

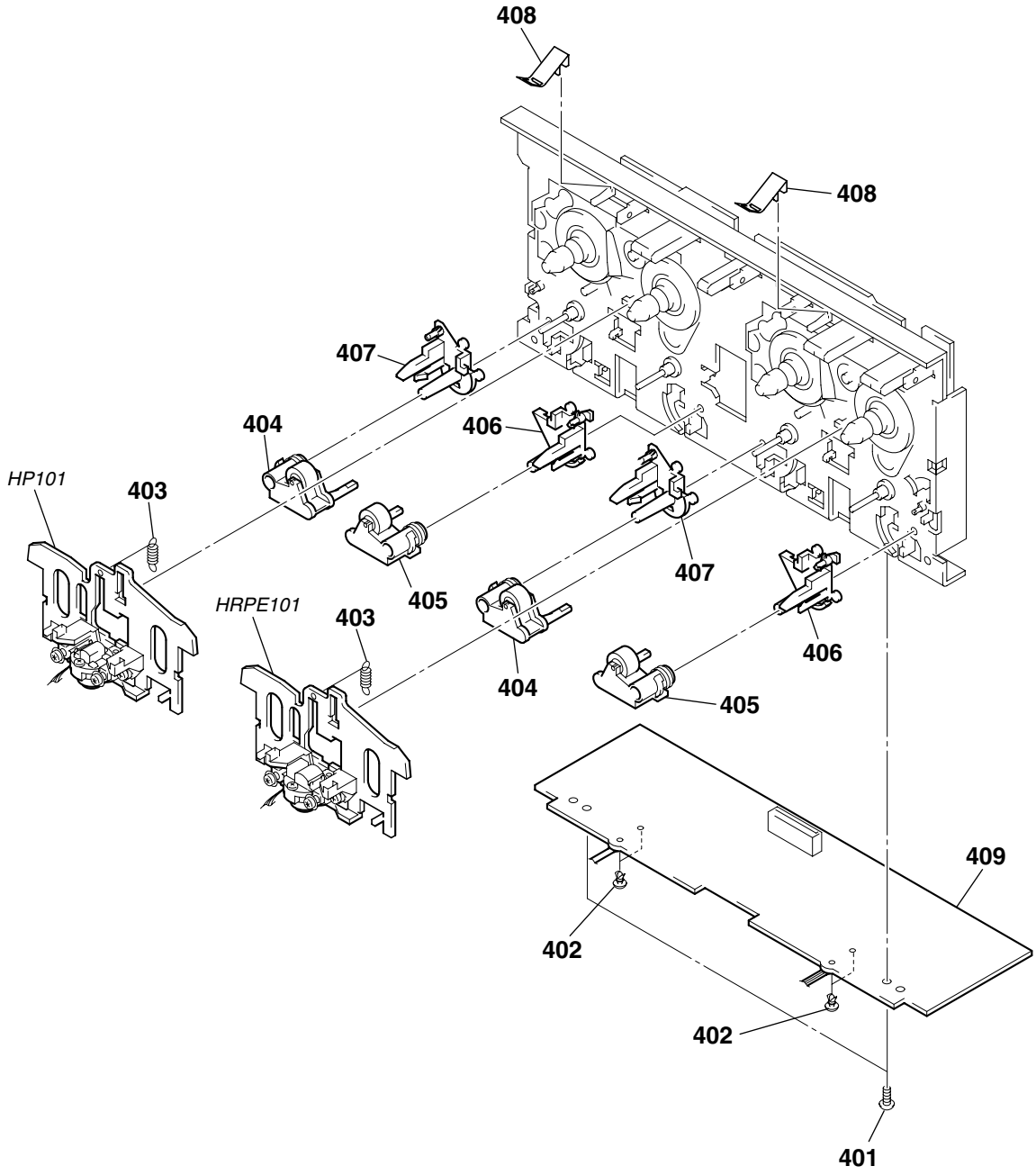
## 7-4. CHASSIS SECTION




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 151 | 1-676-267-11 | TRANS BOARD | |
| * 152 | 4-988-533-01 | HOLDER, PWB | |
| 153 | 3-703-244-00 | BUSHING (FBS001), CORD | |
| 154 | A-4428-938-A | PA BOARD, COMPLETE | |
| 155 | A-4428-132-A | SURROUND AMP BOARD, COMPLETE | |
| ⚠156 | 1-569-008-21 | ADAPTOR, CONVERSION 2P | |
| ⚠157 | 1-777-071-51 | CORD, POWER | |
| 158 | A-4428-146-A | MAIN BOARD, COMPLETE | |
| 159 | X-4941-228-1 | FOOT (F22125H-M) | |
| 160 | A-4724-882-A | VIDEO BOARD, COMPLETE | |
| 161 | 1-790-660-11 | WIRE (FLAT TYPE) (23 CORE) | |
| 162 | 1-790-288-11 | WIRE (FLAT TYPE) (13 CORE) | |
| ⚠T951 | 1-435-249-11 | TRANSFORMER, POWER | |

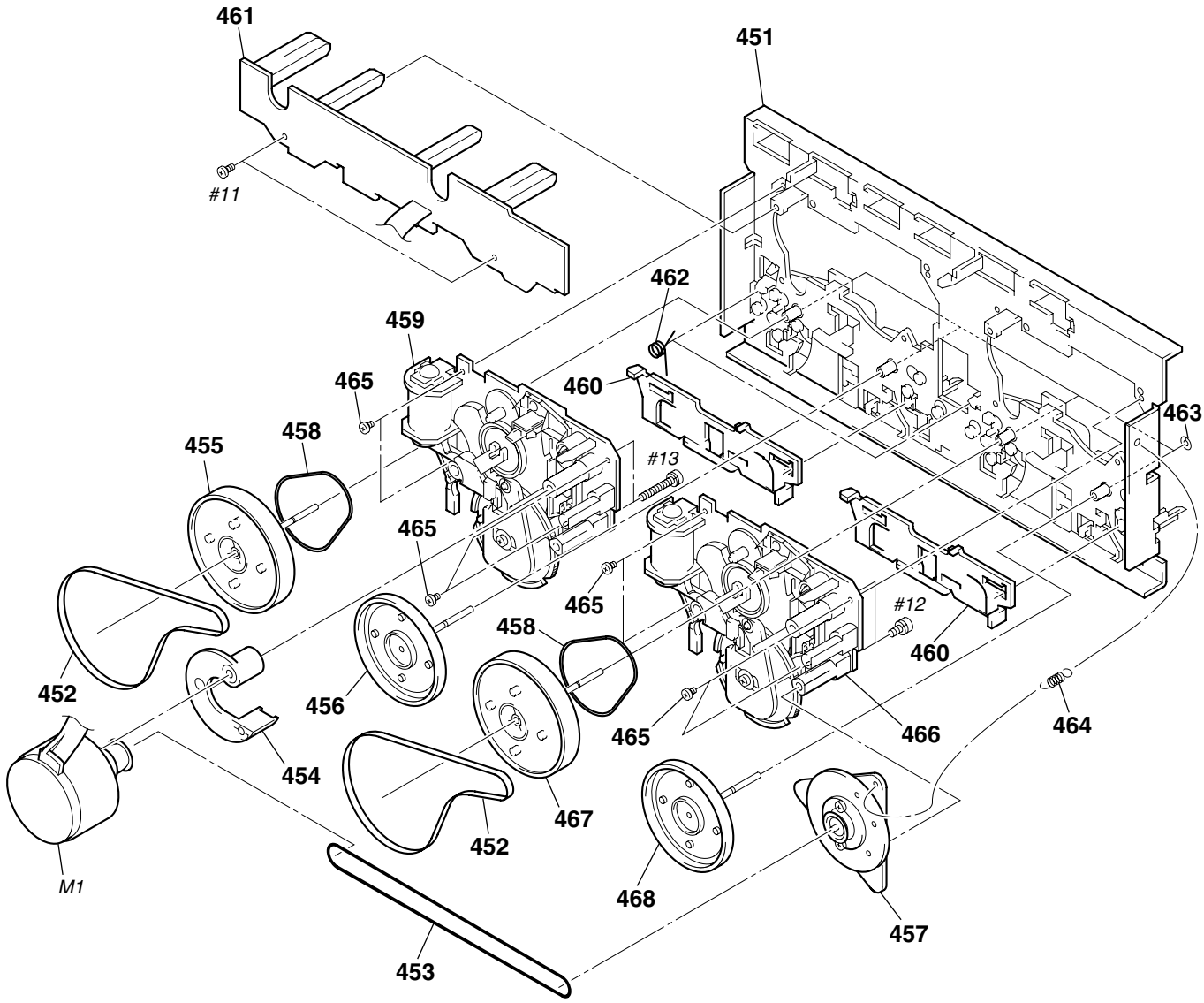
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

## 7-5. TAPE MECHANISM DECK SECTION-1 (TCM-230PWR12)




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 401 | 3-376-464-11 | SCREW(+PTT 2.6X6),GROUND POINT | |
| 402 | 3-911-116-42 | RIVET, PUSH | |
| 403 | 3-016-574-01 | SPRING (HEAD), TENSION | |
| 404 | X-3374-156-4 | PINCH LEVER (REV) ASSY | |
| 405 | X-3374-155-4 | PINCH LEVER (FWD) ASSY | |
| 406 | 3-017-365-01 | BASE (PINCH LEVER FWD) | |
| 407 | 3-017-366-01 | BASE (PINCH LEVER REV) | |
| 408 | 3-016-567-02 | SPRING (CASSETTE), LEAF | |
| 409 | 1-675-753-21 | AUDIO BOARD | |
| HP101 | A-2004-778-A | BASE (A) ASSY, HEAD | |
| HRPE101 | A-2004-779-A | BASE (B) ASSY, HEAD | |

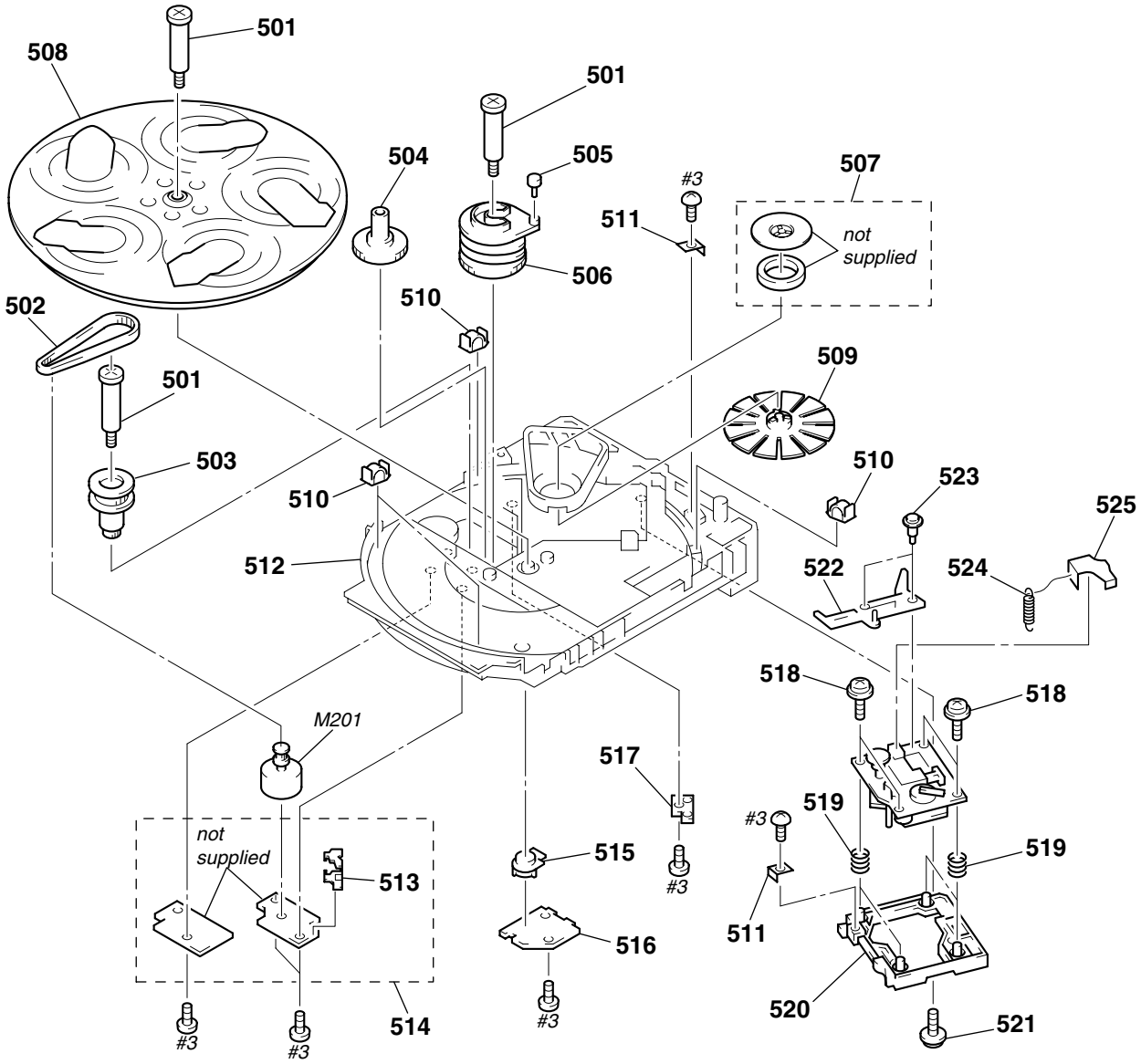
## 7-6. TAPE MECHANISM DECK SECTION-2 (TCM-230PWR12)




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 451 | X-4952-881-1 | CHASSIS ASSY, MAIN | |
| 452 | 3-041-946-01 | BELT (CAPSTAN B) | |
| 453 | 4-227-239-01 | BELT (CAPSTAN C) | |
| 454 | 3-016-568-01 | BRACKET (MOTOR) | |
| 455 | X-3378-247-1 | FLYWHEEL (A-FWD) ASSY | |
| 456 | X-3378-248-1 | FLYWHEEL (A-REV) ASSY | |
| 457 | X-3374-157-1 | PULLEY ASSY, TENSION | |
| 458 | 3-041-947-01 | BELT (FR) | |
| 459 | A-2004-752-A | BLOCK (A) ASSY, MECHANICAL | |
| 460 | 3-016-566-01 | SLIDER, REVERSE | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 461 | A-2007-852-A | LEAF SW BOARD, COMPLETE | |
| 462 | 4-228-450-01 | SPRING (REVERSE SLIDER),TORSION | |
| 463 | 3-019-208-01 | WASHER, STOPPER | |
| 464 | 3-027-453-01 | SPRING (GROUND), TENSION | |
| 465 | 3-030-823-01 | SCREW (+BVTT) (2X3.5) | |
| 466 | A-2004-753-A | BLOCK (B) ASSY, MECHANICAL | |
| 467 | X-3378-249-1 | FLYWHEEL (B-FWD) ASSY | |
| 468 | X-3378-250-1 | FLYWHEEL (B-REV) ASSY | |
| M1 | X-3378-246-1 | MOTOR ASSY | |

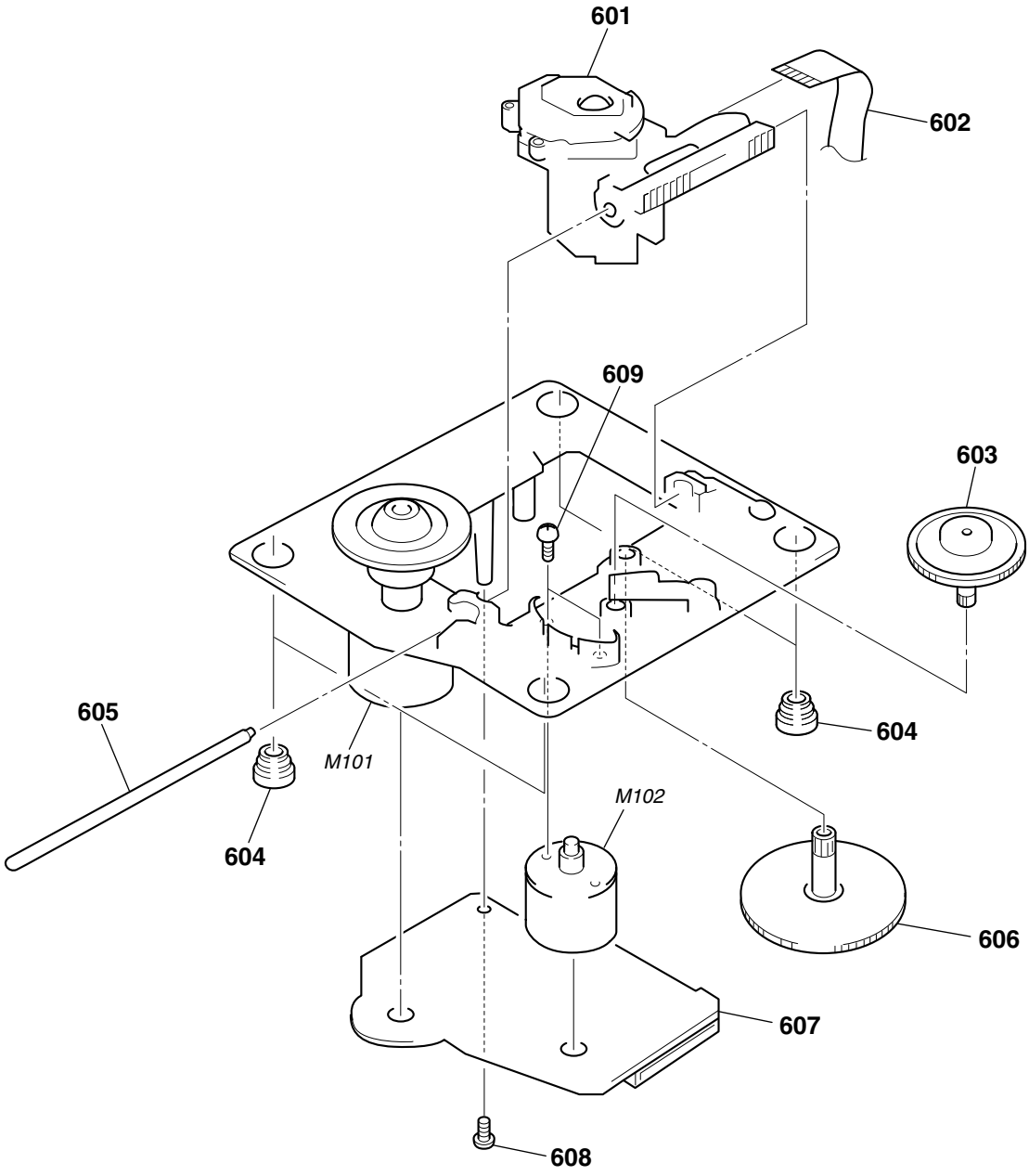
## 7-7. CD MECHANISM DECK SECTION (CDM37L-5BD34L)




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 501 | 4-987-976-01 | SCREW, STEP | |
| 502 | 4-944-490-01 | BELT (TIMING) | |
| 503 | A-4660-978-A | GEAR (PULLEY) ASSY | |
| 504 | 4-978-421-01 | GEAR (MID) | |
| 505 | 4-978-425-01 | ROLLER (CAM) | |
| 506 | 4-978-420-01 | CAM(HOLDER) | |
| 507 | 1-452-925-21 | MAGNET ASSY | |
| 508 | 4-978-417-01 | TABLE, DISC | |
| 509 | 4-993-142-03 | PULLEY (L), PRESS | |
| 510 | X-4947-960-1 | ROLLER ASSY | |
| * 511 | 4-978-583-01 | BRACKET (BU) | |
| 512 | 4-978-418-01 | CHASSIS | |
| * 513 | 4-980-385-01 | HOLDER (SW) | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| * 514 | A-4673-765-A | CD MOTOR BOARD, COMPLETE | |
| 515 | 4-978-426-01 | INDICATOR (NO.) | |
| * 516 | 1-659-059-13 | LED BOARD | |
| * 517 | 1-659-058-13 | TABLE SENSOR BOARD | |
| 518 | 4-985-672-01 | SCREW (+PTPWHM2.6), FLOATING | |
| 519 | 4-958-593-01 | SPRING (BU), COMPRESSION | |
| * 520 | 4-978-419-01 | HOLDER (BU-5) | |
| 521 | 4-998-716-01 | SCREW, BU FITTING | |
| 522 | 4-989-493-01 | SLIDER (37) | |
| 523 | 4-989-494-01 | SCREW (SLIDER), STEP | |
| 524 | 4-989-819-02 | SPRING, TENSION | |
| 525 | 4-989-491-01 | COVER, LENS | |
| M201 | A-4660-977-A | MOTOR ASSY | |

## 7-8. BASE UNIT SECTION (BU-5BD34L)




| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| ⚠601 | 8-820-020-02 | OPTICAL PICK-UP BLOCK KSS-213D/Q-NP | |
| 602 | 1-769-069-11 | WIRE (FLAT TYPE) (16 CORE) | |
| 603 | 4-917-567-21 | GEAR (M) | |
| 604 | 4-951-940-01 | INSULATOR (BU) | |
| 605 | 4-917-565-01 | SHAFT, SLED | |
| 606 | 4-917-564-01 | GEAR (P), FLATNESS | |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| 607 | A-4724-653-A | BD BOARD, COMPLETE | |
| 608 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 609 | 3-713-786-51 | SCREW +P 2X3 | |
| M101 | X-4917-523-3 | MOTOR ASSY (SPINDLE) | |
| M102 | X-4917-504-1 | MOTOR ASSY (SLED) | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

**AUDIO**

# SECTION 8
# ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- COILS
  uH: µH
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Abbreviation
  EA : Saudi Arabia model.
  SP : Singapore model.
  MY : Malaysia model.
  IA : Indonesian model.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | 1-675-753-21 | AUDIO BOARD | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C301 | 1-162-289-31 | CERAMIC | 390PF | 10.00% | 50V |
| C302 | 1-126-968-11 | ELECT | 100uF | 20.00% | 6.3V |
| C303 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C304 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C305 | 1-107-715-11 | ELECT | 22uF | 20.00% | 16V |
| C311 | 1-162-289-31 | CERAMIC | 390PF | 10.00% | 50V |
| C313 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C314 | 1-130-487-00 | MYLAR | 0.022uF | 5% | 50V |
| C315 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C331 | 1-136-434-11 | FILM | 120PF | 5.00% | 630V |
| C332 | 1-162-288-31 | CERAMIC | 330PF | 10% | 50V |
| C333 | 1-162-209-31 | CERAMIC | 27PF | 5.00% | 50V |
| C401 | 1-162-289-31 | CERAMIC | 390PF | 10.00% | 50V |
| C402 | 1-126-968-11 | ELECT | 100uF | 20.00% | 6.3V |
| C403 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C404 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C405 | 1-107-715-11 | ELECT | 22uF | 20.00% | 16V |
| C411 | 1-162-289-31 | CERAMIC | 390PF | 10.00% | 50V |
| C413 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C414 | 1-130-487-00 | MYLAR | 0.022uF | 5% | 50V |
| C415 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C431 | 1-136-434-11 | FILM | 120PF | 5.00% | 630V |
| C432 | 1-162-288-31 | CERAMIC | 330PF | 10% | 50V |
| C433 | 1-162-209-31 | CERAMIC | 27PF | 5.00% | 50V |
| C601 | 1-104-396-11 | ELECT | 10uF | 20.00% | 16V |
| C602 | 1-104-396-11 | ELECT | 10uF | 20.00% | 16V |
| C611 | 1-104-396-11 | ELECT | 10uF | 20.00% | 16V |
| C612 | 1-104-396-11 | ELECT | 10uF | 20.00% | 16V |
| C621 | 1-137-150-11 | FILM | 0.01uF | 5.00% | 100V |
| C622 | 1-126-961-11 | ELECT | 2.2uF | 20.00% | 50V |
| C623 | 1-136-155-00 | FILM | 0.015uF | 5% | 50V |
| C624 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V |
| C625 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V |
| C627 | 1-124-903-11 | ELECT | 1uF | 20.00% | 50V |
| C628 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V |
| C642 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| | | < CONNECTOR > | | | |
| CN601 | 1-568-834-11 | SOCKET, CONNECTOR 15P | | | |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | | < IC > | | | |
| IC601 | 8-759-111-44 | IC uPC4570C-1 | | | |
| IC602 | 8-759-143-54 | IC uPC1330HA | | | |
| IC611 | 8-759-111-44 | IC uPC4570C-1 | | | |
| | | < COIL > | | | |
| L331 | 1-410-780-11 | INDUCTOR | 27MH | | |
| L431 | 1-410-780-11 | INDUCTOR | 27MH | | |
| | | < TRANSISTOR > | | | |
| Q621 | 8-729-142-46 | TRANSISTOR | 2SC2001TP-LK | | |
| Q622 | 8-729-142-46 | TRANSISTOR | 2SC2001TP-LK | | |
| Q623 | 8-729-801-93 | TRANSISTOR | 2SD1387-34-TP | | |
| | | < RESISTOR > | | | |
| R301 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R302 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R303 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R304 | 1-247-889-00 | CARBON | 270K | 5% | 1/4W |
| R305 | 1-247-858-11 | CARBON | 13K | 5% | 1/4W |
| R311 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R312 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R314 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W |
| R315 | 1-247-850-11 | CARBON | 6.2K | 5% | 1/4W |
| R331 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R401 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R402 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R403 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R404 | 1-247-889-00 | CARBON | 270K | 5% | 1/4W |
| R405 | 1-247-858-11 | CARBON | 13K | 5% | 1/4W |
| R411 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R412 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R414 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W |
| R415 | 1-247-850-11 | CARBON | 6.2K | 5% | 1/4W |
| R431 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R601 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R602 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R608 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R609 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R611 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R612 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| ⚠R621 | 1-212-851-00 | FUSIBLE | 5.6 | 5% | 1/4W |
| ⚠R622 | 1-212-851-00 | FUSIBLE | 5.6 | 5% | 1/4W |
| R623 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R624 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R625 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | | < VARIABLE RESISTOR > | | | |
| RV301 | 1-238-598-11 | RES, ADJ, CARBON 2.2K | | | |
| RV311 | 1-238-598-11 | RES, ADJ, CARBON 2.2K | | | |
| RV341 | 1-241-768-11 | RES, ADJ, CARBON 220K | | | |
| RV401 | 1-238-598-11 | RES, ADJ, CARBON 2.2K | | | |
| RV411 | 1-238-598-11 | RES, ADJ, CARBON 2.2K | | | |
| RV441 | 1-241-768-11 | RES, ADJ, CARBON 220K | | | |
| | | < TRANSFORMER > | | | |
| T621 | 1-423-980-11 | TRANSFORMER, BIAS OSCILLATION | | | |
| ********** | | | | | |
| | A-4724-653-A | BD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C102 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C103 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C105 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C106 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C107 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C108 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C109 | 1-163-145-00 | CERAMIC CHIP | 0.0015uF | 5% | 50V |
| C110 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C111 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C112 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C113 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C115 | 1-126-607-11 | ELECT CHIP | 47uF | 20% | 4V |
| C116 | 1-126-607-11 | ELECT CHIP | 47uF | 20% | 4V |
| C117 | 1-126-209-11 | ELECT CHIP | 100uF | 20.00% | 4V |
| C118 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5.00% | 50V |
| C119 | 1-163-110-00 | CERAMIC CHIP | 51PF | 5% | 50V |
| C120 | 1-109-982-11 | CERAMIC CHIP | 1uF | 10.00% | 10V |
| C121 | 1-125-838-91 | CERAMIC CHIP | 2.2uF | 10% | 6.3V |
| C122 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C123 | 1-163-021-91 | CERAMIC CHIP | 0.01uF | 10.00% | 50V |
| C124 | 1-164-005-11 | CERAMIC CHIP | 0.47uF | | 25V |
| C126 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C130 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C140 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C141 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C151 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C153 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C154 | 1-110-501-11 | CERAMIC CHIP | 0.33uF | 10.00% | 16V |
| C156 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C157 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C159 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C161 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C162 | 1-128-065-11 | ELECT CHIP | 68uF | 20.00% | 10V |
| C170 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C171 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| | | < CONNECTOR > | | | |
| CN101 | 1-770-706-11 | CONNECTOR, FFC/FPC 23P | | | |
| CN102 | 1-777-937-11 | CONNECTOR, FFC/FPC 16P | | | |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | | < IC > | | | |
| IC101 | 8-752-397-42 | IC CXD3008Q | | | |
| IC102 | 8-759-549-28 | IC BA5974FP-E2 | | | |
| IC103 | 8-752-085-51 | IC CXA2568M-T6 | | | |
| IC104 | 8-759-325-67 | IC TC7SH04F(TE85R) | | | |
| | | < COIL > | | | |
| L101 | 1-414-234-22 | INDUCTOR CHIP | 0uH | | |
| L102 | 1-410-377-31 | INDUCTOR CHIP | 4.7uH | | |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-010-08 | TRANSISTOR | MSB710-R | | |
| | | < RESISTOR > | | | |
| R101 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R102 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R103 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R104 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R105 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R106 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R107 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R108 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R109 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R110 | 1-216-295-91 | SHORT | 0 | | |
| R112 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R123 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R124 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R125 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R126 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R127 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R131 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R135 | 1-216-295-91 | SHORT | 0 | | |
| R136 | 1-216-295-91 | SHORT | 0 | | |
| R137 | 1-216-295-91 | SHORT | 0 | | |
| R138 | 1-216-295-91 | SHORT | 0 | | |
| R143 | 1-216-103-00 | METAL CHIP | 180K | 5% | 1/10W |
| R144 | 1-216-103-00 | METAL CHIP | 180K | 5% | 1/10W |
| R145 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R146 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R147 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R148 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R149 | 1-216-003-11 | RES-CHIP | 12 | 5% | 1/10W |
| R150 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R154 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R155 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R156 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R157 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R158 | 1-216-111-00 | METAL CHIP | 390K | 5% | 1/10W |
| R159 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R161 | 1-216-308-00 | METAL CHIP | 4.7 | 5% | 1/10W |
| R162 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W |
| R171 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R172 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R173 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |

**BD** **CD MOTOR** **CD-L (CD-L2)** **CD-R (CD-R2)**

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R175 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R203 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R204 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R205 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R206 | 1-216-295-91 | SHORT | 0 | | |
| | | < SWITCH > | | | |
| S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | | | |
| ********** | | | | | |
| * | A-4673-765-A | CD MOTOR BOARD, COMPLETE | | | |
| | | ********** | | | |
| * | 4-980-385-01 | HOLDER (SW) | | | |
| | | < CAPACITOR > | | | |
| C201 | 1-126-964-11 | ELECT | 10uF | 20.00% 50V | |
| C202 | 1-164-159-21 | CERAMIC | 0.1uF | 50V | |
| C203 | 1-126-964-11 | ELECT | 10uF | 20.00% 50V | |
| | | < CONNECTOR > | | | |
| * CN201 | 1-568-947-11 | PIN, CONNECTOR 9P | | | |
| | | < IC > | | | |
| IC201 | 8-759-365-94 | IC TA8409S | | | |
| | | < COIL > | | | |
| L201 | 1-408-117-00 | INDUCTOR | 10uH | | |
| | | < RESISTOR > | | | |
| R205 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W F |
| R206 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| | | < SWITCH > | | | |
| S201 | 1-762-587-11 | SWITCH, PUSH (1 KEY)(UP) | | | |
| ********** | | | | | |
| | A-4428-176-A | CD-L BOARD, COMPLETE | | | |
| | | (including CD-L2 BOARD) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C691 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% 16V | |
| | | < CONNECTOR > | | | |
| CN812 | 1-785-332-11 | PIN, CONNECTOR (LIGHT ANGLE)6P | | | |
| | | < DIODE > | | | |
| D641 | 8-719-058-04 | DIODE SEL5223S-TP15 (NON-STOP) | | | |
| | | < RESISTOR > | | | |
| R729 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W F |
| R730 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W F |
| R731 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R732 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| R733 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W F |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R734 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R735 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R736 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R745 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W F |
| | | < SWITCH > | | | |
| S651 | 1-762-875-21 | SWITCH, KEYBOARD (LOOP) | | | |
| S652 | 1-762-875-21 | SWITCH, KEYBOARD (NON-STOP) | | | |
| S653 | 1-762-875-21 | SWITCH, KEYBOARD (EDIT) | | | |
| S654 | 1-762-875-21 | SWITCH, KEYBOARD (DISC1) | | | |
| S655 | 1-762-875-21 | SWITCH, KEYBOARD (DISC2) | | | |
| S656 | 1-762-875-21 | SWITCH, KEYBOARD (DISC3) | | | |
| S657 | 1-762-875-21 | SWITCH, KEYBOARD (DISC4) | | | |
| S658 | 1-762-875-21 | SWITCH, KEYBOARD (DISC5) | | | |
| S659 | 1-762-875-21 | SWITCH, KEYBOARD (FLASH) | | | |
| S691 | 1-762-587-11 | SWITCH, PUSH (1 KEY) (LID(CD)OPEN/CLOSE) | | | |
| ********** | | | | | |
| | A-4428-119-A | CD-R BOARD, COMPLETE | | | |
| | | (including CD-R2 BOARD) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C613 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% 16V | |
| C614 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% 16V | |
| | | < CONNECTOR > | | | |
| CN703 | 1-785-334-11 | PIN, CONNECTOR (LIGHT ANGLE)8P | | | |
| | | < DIODE > | | | |
| D700 | 8-719-056-13 | DIODE SML79423C-TP15 | | | |
| | | < RESISTOR > | | | |
| R737 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W F |
| R738 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W F |
| R739 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R740 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| R741 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W F |
| R751 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R752 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| R753 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W F |
| R754 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R755 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R756 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R757 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R758 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W F |
| R759 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W F |
| | | < SWITCH > | | | |
| S667 | 1-762-875-21 | SWITCH, KEYBOARD (NEXT) | | | |
| S668 | 1-762-875-21 | SWITCH, KEYBOARD (PREV) | | | |
| S669 | 1-762-875-21 | SWITCH, KEYBOARD (RETURN) | | | |
| S670 | 1-762-875-21 | SWITCH, KEYBOARD (SELECT) | | | |
| S671 | 1-762-875-21 | SWITCH, KEYBOARD (ACTIVE) | | | |
| S676 | 1-762-875-21 | SWITCH, KEYBOARD (FF) | | | |
| S677 | 1-762-875-21 | SWITCH, KEYBOARD (PLAY/PAUSE) | | | |
| S678 | 1-762-875-21 | SWITCH, KEYBOARD (REW) | | | |
| S679 | 1-762-875-21 | SWITCH, KEYBOARD (DISC SKIP) | | | |
| S680 | 1-762-875-21 | SWITCH, KEYBOARD (STOP) | | | |

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| S681 | 1-762-875-21 | SWITCH, KEYBOARD (PLAY MODE) | | | | |
| S682 | 1-762-875-21 | SWITCH, KEYBOARD (REPEAT) | | | | |
| S701 | 1-473-393-11 | ENCODER, ROTARY (AMS) | | | | |
| ********** | | | | | | |
| | 1-676-276-11 | FRONT INPUT BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C801 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C802 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C811 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C812 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C813 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V | |
| | | < FILTER > | | | | |
| FL803 | 1-424-228-11 | FILTER, NOISE | | | | |
| | | < JACK > | | | | |
| J804 | 1-764-592-41 | JACK 3P | | | | |
| | | < RESISTOR > | | | | |
| R801 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R802 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R803 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R804 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R805 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| ********** | | | | | | |
| | 1-676-281-11 | HEADPHONE BOARD | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C891 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C892 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C893 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| | | < CONNECTOR > | | | | |
| CN802 | 1-785-330-11 | PIN, CONNECTOR (LIGHT ANGLE)4P | | | | |
| | | < JACK > | | | | |
| J803 | 1-770-226-41 | JACK (LARGE TYPE) (PHONES) | | | | |
| | | < RESISTOR > | | | | |
| R810 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| ********** | | | | | | |
| | A-2007-852-A | LEAF SW BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C1001 | 1-107-716-11 | ELECT | 33uF | 20.00% | 10V | |
| | | < CONNECTOR > | | | | |
| CN1001 | 1-568-860-21 | SOCKET, CONNECTOR 17P | | | | |

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| | | < DIODE > | | | | |
| D1001 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D1002 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| | | < IC > | | | | |
| IC1001 | 8-749-014-38 | PHOTO INTERRUPTER SG-264 | | | | |
| IC1002 | 8-749-014-38 | PHOTO INTERRUPTER SG-264 | | | | |
| | | < TRANSISTOR > | | | | |
| Q1001 | 8-729-029-56 | TRANSISTOR | DTA144ESA-TP | | | |
| | | < RESISTOR > | | | | |
| R1001 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W | |
| R1002 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W | |
| R1003 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F |
| R1004 | 1-247-834-11 | CARBON | 1.3K | 5% | 1/4W | |
| R1005 | 1-247-818-91 | CARBON | 300 | 5% | 1/4W | |
| R1006 | 1-247-864-11 | CARBON | 24K | 5% | 1/4W | |
| R1007 | 1-247-852-11 | CARBON | 7.5K | 5% | 1/4W | |
| R1008 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| | | < VARIABLE RESISTOR > | | | | |
| RV1001 | 1-241-785-11 | RES, ADJ, CARBON 10K | | | | |
| RV1002 | 1-241-785-11 | RES, ADJ, CARBON 10K | | | | |
| | | < SWITCH > | | | | |
| S1001 | 1-570-953-11 | SWITCH, PUSH (1 KEY)(DISC A PLAY) | | | | |
| S1002 | 1-570-953-11 | SWITCH, PUSH (1 KEY)(DISC B PLAY) | | | | |
| S1003 | 1-771-333-11 | SWITCH, LEAF (DISC A HALF) | | | | |
| S1004 | 1-771-205-11 | SWITCH, LEAF (DISC A 120/70) | | | | |
| S1005 | 1-771-205-11 | SWITCH, LEAF (DISC A REC) | | | | |
| S1006 | 1-771-333-11 | SWITCH, LEAF (DISC B HALF) | | | | |
| S1008 | 1-771-205-11 | SWITCH, LEAF (DISC B 120/70) | | | | |
| S1009 | 1-771-205-11 | SWITCH, LEAF (DISC B REC) | | | | |
| ********** | | | | | | |
| * | 1-659-059-13 | LED BOARD | | | | |
| | | ********* | | | | |
| | | < DIODE > | | | | |
| D201 | 8-719-032-98 | DIODE SEL5820A-TP15 (DISC No.) | | | | |
| | | < TRANSISTOR > | | | | |
| Q201 | 8-729-119-78 | TRANSISTOR | 2SC2785TP-HFE | | | |
| | | < RESISTOR > | | | | |
| R201 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R202 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R203 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| ********** | | | | | | |

# MAIN

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | A-4428-146-A | MAIN BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 4-875-327-31 | HEATSINK | | | |
| | 7-685-646-79 | SCREW+BVTP | 3X8 | TYPE2 N-S | |
| | | < CAPACITOR > | | | |
| C111 | 1-137-195-11 | MYLAR | 0.56uF | 5.00% | 50V |
| C112 | 1-130-488-00 | MYLAR | 0.027uF | 5% | 50V |
| C113 | 1-136-167-00 | MYLAR | 0.15uF | 5.00% | 50V |
| C114 | 1-130-480-00 | MYLAR | 0.0056uF | 5% | 50V |
| C115 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V |
| C116 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C117 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C118 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C119 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C120 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V |
| C121 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C122 | 1-163-006-11 | CERAMIC CHIP | 560PF | 10.00% | 50V |
| C123 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C124 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C125 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C131 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C132 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C135 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C161 | 1-137-195-11 | MYLAR | 0.56uF | 5.00% | 50V |
| C162 | 1-130-488-00 | MYLAR | 0.027uF | 5% | 50V |
| C163 | 1-136-167-00 | MYLAR | 0.15uF | 5.00% | 50V |
| C164 | 1-130-480-00 | MYLAR | 0.0056uF | 5% | 50V |
| C165 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V |
| C166 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C167 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C168 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C169 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C170 | 1-130-477-00 | MYLAR | 0.0033uF | 5% | 50V |
| C171 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C172 | 1-163-006-11 | CERAMIC CHIP | 560PF | 10.00% | 50V |
| C173 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C174 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C175 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C176 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V |
| C177 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C181 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C182 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C183 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C191 | 1-163-031-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C192 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C193 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C201 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C202 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C203 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C204 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C207 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C208 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C209 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C210 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C211 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| C212 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C213 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C214 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C215 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C216 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C217 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C218 | 1-130-471-00 | MYLAR | 0.001uF | 5% | 50V |
| C219 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C220 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C221 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C222 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C223 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C224 | 1-130-471-00 | MYLAR | 0.001uF | 5% | 50V |
| C225 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C226 | 1-130-480-00 | MYLAR | 0.0056uF | 5% | 50V |
| C227 | 1-136-161-00 | MYLAR | 0.047uF | 5.00% | 50V |
| C228 | 1-136-175-00 | MYLAR | 0.68uF | 5.00% | 50V |
| C229 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C230 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C231 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C232 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C233 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C234 | 1-136-169-00 | MYLAR | 0.22uF | 5.00% | 50V |
| C235 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C236 | 1-136-161-00 | MYLAR | 0.047uF | 5.00% | 50V |
| C237 | 1-136-161-00 | MYLAR | 0.047uF | 5.00% | 50V |
| C238 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C239 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C240 | 1-136-157-00 | MYLAR | 0.022uF | 5.00% | 50V |
| C241 | 1-136-157-00 | MYLAR | 0.022uF | 5.00% | 50V |
| C242 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C243 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V |
| C244 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V |
| C245 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V |
| C246 | 1-130-469-00 | MYLAR | 680PF | 5% | 50V |
| C247 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V |
| C248 | 1-136-153-00 | FILM | 0.01uF | 5% | 50V |
| C249 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C250 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V |
| C251 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C252 | 1-126-934-11 | ELECT | 220uF | 20.00% | 16V |
| C253 | 1-126-934-11 | ELECT | 220uF | 20.00% | 16V |
| C255 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C256 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C257 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C258 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C259 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C260 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C261 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C262 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C264 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C301 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C302 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C303 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C304 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| C305 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C306 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C307 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C308 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C309 | 1-137-194-81 | MYLAR | 0.47uF | 5.00% | 50V |
| C310 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C311 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C312 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C313 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C314 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C315 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C316 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C317 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C320 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C333 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C334 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C351 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C352 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C353 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C354 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C355 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C356 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C357 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C358 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C359 | 1-137-194-81 | MYLAR | 0.47uF | 5.00% | 50V |
| C401 | 1-126-961-11 | ELECT | 2.2uF | 20.00% | 50V |
| C411 | 1-163-033-91 | CERAMIC CHIP | 0.022uF | | 50V |
| C412 | 1-163-033-91 | CERAMIC CHIP | 0.022uF | | 50V |
| C413 | 1-126-916-11 | ELECT | 1000uF | 20.00% | 6.3V |
| C414 | 1-126-916-11 | ELECT | 1000uF | 20.00% | 6.3V |
| C415 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C416 | 1-126-925-11 | ELECT | 470uF | 20.00% | 10V |
| C431 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C451 | 1-126-961-11 | ELECT | 2.2uF | 20.00% | 50V |
| C510 | 1-163-233-11 | CERAMIC CHIP | 18PF | 5.00% | 50V |
| C510 | 1-163-233-11 | CERAMIC CHIP | 18PF | 5.00% | 50V |
| C511 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C516 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C562 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C564 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C598 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C599 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C601 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C602 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C603 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C604 | 1-126-961-11 | ELECT | 2.2uF | 20.00% | 50V |
| C605 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C606 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C607 | 1-136-159-00 | MYLAR | 0.033uF | 5.00% | 50V |
| C608 | 1-163-031-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C609 | 1-126-933-11 | ELECT | 100uF | 20.00% | 16V |
| C651 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C652 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C653 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C654 | 1-126-961-11 | ELECT | 2.2uF | 20.00% | 50V |
| C655 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C656 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C657 | 1-136-159-00 | MYLAR | 0.033uF | 5.00% | 50V |
| C658 | 1-163-031-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C659 | 1-126-933-11 | ELECT | 100uF | 20.00% | 16V |
| C701 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C702 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C703 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C711 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C712 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C713 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C721 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C722 | 1-126-926-11 | ELECT | 1000uF | 20.00% | 10V |
| C723 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C724 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C725 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C731 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C732 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C733 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C751 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C752 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C753 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C761 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C762 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C763 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C772 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C774 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C775 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C776 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C777 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C778 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| C782 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C803 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C804 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C805 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V |
| C806 | 1-126-916-11 | ELECT | 1000uF | 20.00% | 6.3V |
| C808 | 1-109-953-11 | ELECT | 2.2uF | 20.00% | 50V |
| C902 | 1-126-937-11 | ELECT | 4700uF | 20.00% | 16V |
| C903 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C904 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C905 | 1-126-924-11 | ELECT | 330uF | 20.00% | 10V |
| C911 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C912 | 1-126-916-11 | ELECT | 1000uF | 20.00% | 6.3V |
| C913 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C914 | 1-126-916-11 | ELECT | 1000uF | 20.00% | 6.3V |
| C921 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C922 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C932 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C933 | 1-126-933-11 | ELECT | 100uF | 20.00% | 16V |
| C934 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C935 | 1-126-767-11 | ELECT | 1000uF | 20.00% | 16V |
| C936 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C937 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V |
| C938 | 1-126-933-11 | ELECT | 100uF | 20.00% | 16V |
| C952 | 1-126-943-11 | ELECT | 2200uF | 20.00% | 25V |

# MAIN

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| C953 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C954 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C955 | 1-126-924-11 | ELECT | 330uF | 20.00% | 10V |
| C961 | 1-163-038-91 | CERAMIC CHIP | 0.1uF | | 25V |
| | | < CONNECTOR > | | | |
| CN303 | 1-784-776-11 | CONNECTOR, FFC 15P | | | |
| CN304 | 1-784-778-11 | CONNECTOR, FFC 17P | | | |
| CN411 | 1-784-780-11 | CONNECTOR, FFC 19P | | | |
| CN412 | 1-785-321-11 | PIN, CONNECTOR (STRAIGHT) 9P | | | |
| CN431 | 1-784-776-11 | CONNECTOR, FFC 15P | | | |
| CN441 | 1-750-745-11 | CONNECTOR, FFC/FPC 13P | | | |
| CN452 | 1-785-316-11 | PIN, CONNECTOR (STRAIGHT) 4P | | | |
| * CN701 | 1-564-505-11 | PLUG, CONNECTOR 2P | | | |
| CN702 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | | | |
| CN901 | 1-778-982-11 | CONNECTOR, BOARD TO BOARD 13P | | | |
| CN902 | 1-778-982-21 | CONNECTOR, BOARD TO BOARD 13P | | | |
| * CN903 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| | | < DIODE > | | | |
| D191 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D192 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D193 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D194 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D201 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D333 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D334 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D335 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D336 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D401 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D501 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D534 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D801 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D802 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D803 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D804 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D805 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D806 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D807 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D808 | 8-719-210-33 | DIODE | EC10DS2-TE12L5 | | |
| D911 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| D912 | 8-719-210-33 | DIODE | EC10DS2-TE12L5 | | |
| D931 | 8-719-210-33 | DIODE | EC10DS2-TE12L5 | | |
| D951 | 8-719-988-61 | DIODE | 1SS355TE-17 | | |
| | | < FERRITE BEAD > | | | |
| FB411 | 1-414-772-11 | FERRITE | 0UH | | |
| FB412 | 1-414-772-11 | FERRITE | 0UH | | |
| FB413 | 1-414-551-11 | FERRITE | 0UH | | |
| FB415 | 1-414-772-11 | FERRITE | 0UH | | |
| | | < FILTER > | | | |
| FL201 | 1-233-289-21 | FILTER, EMI (SMD) | | | |
| FL501 | 1-233-289-21 | FILTER, EMI (SMD) | | | |
| FL502 | 1-233-289-21 | FILTER, EMI (SMD) | | | |
| FL503 | 1-233-289-21 | FILTER, EMI (SMD) | | | |

| Ref. No. | Part No. | Description | | Remarks |
|---|---|---|---|---|
| | | < IC > | | |
| IC101 | 8-759-571-54 | IC | M62493FP | |
| IC181 | 8-759-009-06 | IC | MC14052BFEL | |
| IC191 | 8-759-571-53 | IC | BA7615N | |
| IC201 | 8-759-571-51 | IC | M62464FP | |
| IC301 | 8-759-495-26 | IC | HA12215F | |
| IC501 | 8-759-653-44 | IC | M30622MA-A26FP | |
| IC601 | 8-759-636-55 | IC | M5218AFP-T1 | |
| IC781 | 8-749-923-04 | IC | TOTX178A (CD DIGITAL OUT OPTICAL) | |
| IC801 | 8-759-635-63 | IC | M51943BSL-TP | |
| IC901 | 8-759-604-86 | IC | M5F7807L | |
| IC911 | 8-759-231-53 | IC | M5F7805L | |
| IC921 | 8-759-231-53 | IC | M5F7805L | |
| IC931 | 8-759-604-38 | IC | M5F78M10L | |
| IC932 | 8-759-701-79 | IC | NJM7812FA | |
| IC933 | 8-759-604-86 | IC | M5F7807L | |
| IC951 | 8-759-604-90 | IC | M5F7907L | |
| | | < JACK > | | |
| J701 | 1-766-558-41 | JACK, PIN 8P (PHONO IN/MD IN/MD OUT/VIDEO(AUDIO IN)) | | |
| J702 | 1-770-337-11 | JACK, PIN 3P (VIDEO 1(VIDEO IN)/VIDEO OUT) | | |
| J703 | 1-779-380-11 | JACK, PIN 6P (FRONT/REAR/CENTER IN) | | |
| J704 | 1-770-377-31 | JACK, PIN 1P (WOOFER OUT) | | |
| | | < JUMPER RESISTOR > | | |
| JR1 | 1-216-295-91 | SHORT | 0 | |
| JR2 | 1-216-296-91 | SHORT | 0 | |
| JR3 | 1-216-296-91 | SHORT | 0 | |
| JR4 | 1-216-295-91 | SHORT | 0 | |
| JR5 | 1-216-295-91 | SHORT | 0 | |
| JR6 | 1-216-296-91 | SHORT | 0 | |
| JR7 | 1-216-296-91 | SHORT | 0 | |
| JR8 | 1-216-296-91 | SHORT | 0 | |
| JR9 | 1-216-295-91 | SHORT | 0 | |
| JR10 | 1-216-296-91 | SHORT | 0 | |
| JR11 | 1-216-296-91 | SHORT | 0 | |
| JR519 | 1-216-295-91 | SHORT | 0 | |
| JR532 | 1-216-295-91 | SHORT | 0 | |
| JR533 | 1-216-295-91 | SHORT | 0 | |
| JR556 | 1-216-295-91 | SHORT | 0 | |
| JR594 | 1-216-295-91 | SHORT | 0 | |
| JR703 | 1-216-295-91 | SHORT | 0 | |
| JR907 | 1-216-295-91 | SHORT | 0 | |
| JR911 | 1-216-295-91 | SHORT | 0 | |
| JR921 | 1-216-296-91 | SHORT | 0 | |
| | | < COIL > | | |
| L201 | 1-412-032-11 | INDUCTOR CHIP | 100uH | |
| L781 | 1-412-032-11 | INDUCTOR CHIP | 100uH | |
| | | < TRANSISTOR > | | |
| Q111 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | |
| Q112 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | |
| Q113 | 8-729-141-30 | TRANSISTOR | 2SC3623ATP-LK | |
| Q115 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | |
| Q161 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | |

| Ref. No. | Part No. | Description | | Remarks |
|---|---|---|---|---|
| Q162 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | |
| Q163 | 8-729-141-30 | TRANSISTOR | 2SC3623ATP-LK | |
| Q165 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | |
| Q271 | 8-729-141-30 | TRANSISTOR | 2SC3623ATP-LK | |
| Q281 | 8-729-141-30 | TRANSISTOR | 2SC3623ATP-LK | |
| Q291 | 8-729-141-30 | TRANSISTOR | 2SC3623ATP-LK | |
| Q331 | 8-729-140-04 | TRANSISTOR | 2SB1116-TP-LK | |
| Q332 | 8-729-029-66 | TRANSISTOR | DTC114ESA-TP | |
| Q333 | 8-729-140-04 | TRANSISTOR | 2SB1116-TP-LK | |
| Q334 | 8-729-029-66 | TRANSISTOR | DTC114ESA-TP | |
| Q335 | 8-729-029-66 | TRANSISTOR | DTC114ESA-TP | |
| Q336 | 8-729-116-59 | TRANSISTOR | 2SB1068TP | |
| Q337 | 8-729-045-21 | TRANSISTOR | 2SD1513TP-LK | |
| Q338 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | |
| Q339 | 8-729-029-66 | TRANSISTOR | DTC114ESA-TP | |
| Q340 | 8-729-116-59 | TRANSISTOR | 2SB1068TP | |
| Q341 | 8-729-045-21 | TRANSISTOR | 2SD1513TP-LK | |
| Q342 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | |
| Q343 | 8-729-029-66 | TRANSISTOR | DTC114ESA-TP | |
| Q731 | 8-729-141-30 | TRANSISTOR | 2SC3623ATP-LK | |
| Q801 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | |
| Q802 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | |
| Q803 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | |
| Q804 | 8-729-029-40 | TRANSISTOR | DTA124ESA-TP | |
| Q901 | 8-729-040-20 | TRANSISTOR | RT1P137L-TP | |
| Q902 | 8-729-029-40 | TRANSISTOR | DTA124ESA-TP | |
| Q903 | 8-729-040-19 | TRANSISTOR | RT1N137L-TP | |
| Q904 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | |
| Q905 | 8-729-119-76 | TRANSISTOR | 2SA1115TP-EF | |
| Q906 | 8-729-029-68 | TRANSISTOR | DTC114TSA-TP | |
| Q911 | 8-729-040-20 | TRANSISTOR | RT1P137L-TP | |
| Q912 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | |
| Q914 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | |
| Q921 | 8-729-018-59 | TRANSISTOR | 2SB1375(LB-SONY) | |
| Q931 | 8-729-040-20 | TRANSISTOR | RT1P137L-TP | |
| Q932 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | |
| Q961 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | |
| Q962 | 8-729-140-04 | TRANSISTOR | 2SB1116-TP-LK | |

< RESISTOR >

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R111 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R112 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R113 | 1-216-103-00 | METAL CHIP | 180K | 5% | 1/10W |
| R114 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W |
| R115 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R116 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R117 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R118 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R119 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R120 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R121 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R122 | 1-216-295-91 | SHORT | 0 | | |
| R123 | 1-216-107-00 | METAL CHIP | 270K | 5% | 1/10W |
| R124 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R125 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R126 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R127 | 1-216-111-00 | METAL CHIP | 390K | 5% | 1/10W |
| R129 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R131 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R132 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R133 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R161 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R162 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R163 | 1-216-103-00 | METAL CHIP | 180K | 5% | 1/10W |
| R164 | 1-216-043-91 | RES-CHIP | 560 | 5% | 1/10W |
| R165 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R166 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R167 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R168 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R169 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R170 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R171 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R172 | 1-216-295-91 | SHORT | 0 | | |
| R173 | 1-216-107-00 | METAL CHIP | 270K | 5% | 1/10W |
| R174 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R175 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R177 | 1-216-111-00 | METAL CHIP | 390K | 5% | 1/10W |
| R178 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R179 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R201 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R202 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R203 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R204 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R205 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R206 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W |
| R207 | 1-216-094-00 | RES-CHIP | 75K | 5% | 1/10W |
| R208 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R209 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W |
| R210 | 1-216-094-00 | RES-CHIP | 75K | 5% | 1/10W |
| R211 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R212 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R213 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R214 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R271 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R272 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R273 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R281 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R282 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R283 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R291 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R292 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R293 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R301 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R302 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R303 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R304 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R305 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R306 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R307 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R308 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R309 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R311 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R312 | 1-216-102-00 | RES-CHIP | 160K | 5% | 1/10W |
| R313 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R315 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R316 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R317 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R318 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R319 | 1-216-111-00 | METAL CHIP | 390K | 5% | 1/10W |
| R321 | 1-216-059-00 | METAL CHIP | 2.7K | 5% | 1/10W |

## MAIN

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R322 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R332 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R333 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R334 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R335 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R336 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R337 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R338 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R339 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R340 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R341 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R342 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R343 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R344 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R345 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R346 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R347 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R348 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R351 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R352 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R353 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R354 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R355 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R356 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R357 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R358 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R359 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R371 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R372 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R373 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R374 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R375 | 1-216-094-00 | RES-CHIP | 75K | 5% | 1/10W |
| R376 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R377 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R378 | 1-216-094-00 | RES-CHIP | 75K | 5% | 1/10W |
| R401 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R402 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R411 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R413 | 1-216-295-91 | SHORT | 0 | | |
| R414 | 1-216-295-91 | SHORT | 0 | | |
| R451 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R452 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R501 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R503 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R505 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R511 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R513 | 1-216-295-91 | SHORT | 0 | | |
| R517 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R518 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R522 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R526 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R527 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R528 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R529 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R530 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R532 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R533 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R536 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R538 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R540 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R541 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R542 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R543 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R545 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R546 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R547 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R548 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R549 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R550 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R551 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R552 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R553 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R554 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R555 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R556 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R557 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R559 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R561 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R563 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R565 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R567 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R568 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R569 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R570 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R572 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R573 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R574 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R575 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R576 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R577 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R578 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R579 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R580 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R581 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R582 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R583 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R584 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R585 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R586 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R587 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R588 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R589 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R590 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R591 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R593 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R594 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R595 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R596 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R597 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R600 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R601 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R602 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R603 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R604 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R605 | 1-216-115-00 | METAL CHIP | 560K | 5% | 1/10W |
| R606 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R607 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R608 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R609 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R651 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R652 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R653 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R654 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R655 | 1-216-115-00 | METAL CHIP | 560K | 5% | 1/10W |
| R656 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R657 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R658 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R659 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R701 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R702 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R703 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R704 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R705 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R706 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R711 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R712 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R713 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W |
| R714 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R715 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W |
| R716 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R721 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R722 | 1-216-015-00 | METAL CHIP | 39 | 5% | 1/10W |
| R723 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R724 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R725 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R731 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R732 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R733 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R734 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R751 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R752 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R753 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R754 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R755 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R756 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R761 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R762 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R763 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W |
| R764 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R765 | 1-216-068-00 | METAL CHIP | 6.2K | 5% | 1/10W |
| R766 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R801 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R802 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R803 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R804 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R805 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| R806 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R807 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R808 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R809 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R810 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R811 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R901 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R902 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R903 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R916 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R917 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R919 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R920 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R961 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R962 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R963 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | < VARIABLE RESISTOR > | | | |
| RV301 | 1-238-600-11 | RES, ADJ, CARBON 10K | | | |
| RV351 | 1-238-600-11 | RES, ADJ, CARBON 10K | | | |
| | | < VIBRATOR > | | | |
| X501 | 1-567-098-41 | VIBRATOR, CRYSTAL 32.768KHz | | | |
| X502 | 1-781-107-21 | VIBRATOR, SERAMIC 16MHz | | | |
| ********** | | | | | |
| | A-4428-233-A | MIC BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C801 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V |
| C802 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V |
| C803 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C804 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C805 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C806 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C810 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C817 | 1-126-961-11 | ELECT | 2.2uF | 20.00% | 50V |
| C818 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C821 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C822 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C823 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C825 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| C826 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C827 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C828 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V |
| C829 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C830 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V |
| C831 | 1-162-305-11 | CERAMIC | 0.0068uF | 30.00% | 16V |
| C832 | 1-136-167-00 | MYLAR | 0.15uF | 5.00% | 50V |
| C833 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C834 | 1-162-305-11 | CERAMIC | 0.0068uF | 30.00% | 16V |
| C835 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V |
| C836 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V |
| C865 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C878 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| | | < CONNECTOR > | | | |
| CN813 | 1-785-320-11 | PIN, CONNECTOR (STRAIGHT) 8P | | | |
| | | < DIODE > | | | |
| D801 | 8-719-109-85 | DIODE MTZJ-5.1B | | | |
| | | < TERMINAL > | | | |
| * EPT802 | 1-537-738-21 | TERMINAL, EARTH | | | |
| | | < FILTER > | | | |
| FL801 | 1-424-228-11 | FILTER, NOISE | | | |

**MIC** **PA**

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| | | < IC > | | | | |
| IC850 | 8-759-634-50 | IC M5218AL | | | | |
| IC851 | 8-759-450-96 | IC M65850P | | | | |
| | | < JACK > | | | | |
| J801 | 1-770-226-41 | JACK (LARGE TYPE)ÅiMIX MIC) | | | | |
| J802 | 1-770-222-21 | JACK (LARGE TYPE) (GUITAR) | | | | |
| | | < RESISTOR > | | | | |
| R806 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R807 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R808 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R809 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R850 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R852 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R853 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R854 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R855 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R856 | 1-247-889-00 | CARBON | 270K | 5% | 1/4W | |
| R857 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R858 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R859 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R860 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R861 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R862 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R863 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R864 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R865 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R866 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R867 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R874 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R875 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | A-4428-938-A | PA BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C401 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V | |
| C406 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C407 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C408 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C409 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C410 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C411 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C412 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C413 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C414 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C415 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C416 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C432 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V | |
| C433 | 1-126-962-11 | ELECT | 3.3uF | 20.00% | 50V | |
| C801 | 1-128-582-11 | ELECT | 10uF | 20.00% | 100V | |
| C802 | 1-162-292-31 | CERAMIC | 680PF | 10% | 50V | |
| C803 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V | |
| C804 | 1-126-967-11 | ELECT | 47uF | 20.00% | 50V | |
| C807 | 1-128-560-11 | ELECT | 22uF | 20.00% | 100V | |
| C808 | 1-130-777-00 | MYLAR | 0.1uF | 10.00% | 100V | |
| C809 | 1-130-777-00 | MYLAR | 0.1uF | 10.00% | 100V | |
| C810 | 1-128-562-11 | ELECT | 47uF | 20.00% | 100V | |
| C811 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V | |
| C812 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V | |
| C813 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |
| C814 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C815 | 1-126-959-11 | ELECT | 0.47uF | 20.00% | 50V | |
| C830 | 1-107-714-11 | ELECT | 10uF | 20.00% | 50V | |
| C831 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V | |
| C832 | 1-126-967-11 | ELECT | 47uF | 20.00% | 50V | |
| C841 | 1-127-751-11 | ELECT | 3300uF | 20% | 50V | |
| C842 | 1-127-754-11 | ELECT | 3300uF | 20% | 80V | |
| C844 | 1-130-777-00 | MYLAR | 0.1uF | 10.00% | 100V | |
| C845 | 1-126-943-11 | ELECT | 2200uF | 20.00% | 25V | |
| C847 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C848 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C849 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C850 | 1-107-721-11 | ELECT | 4.7uF | 20.00% | 100V | |
| C851 | 1-128-582-11 | ELECT | 10uF | 20.00% | 100V | |
| C852 | 1-162-292-31 | CERAMIC | 680PF | 10% | 50V | |
| C853 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V | |
| C854 | 1-126-967-11 | ELECT | 47uF | 20.00% | 50V | |
| C857 | 1-128-560-11 | ELECT | 22uF | 20.00% | 100V | |
| C858 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C859 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| C861 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V | |
| C862 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V | |
| C891 | 1-127-751-11 | ELECT | 3300uF | 20% | 50V | |
| C892 | 1-127-754-11 | ELECT | 3300uF | 20% | 80V | |
| C894 | 1-130-777-00 | MYLAR | 0.1uF | 10.00% | 100V | |
| C895 | 1-107-721-11 | ELECT | 4.7uF | 20.00% | 100V | |
| C904 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V | |
| C905 | 1-126-968-11 | ELECT | 100uF | 20.00% | 50V | |
| C909 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V | |
| | | < CONNECTOR > | | | | |
| CN803 | 1-778-981-21 | CONNECTOR, BOARD TO BOARD 13P | | | | |
| CN804 | 1-778-981-21 | CONNECTOR, BOARD TO BOARD 13P | | | | |
| | | < DIODE > | | | | |
| D401 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D402 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D403 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D404 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D405 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D406 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D407 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D408 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D409 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D410 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D801 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D802 | 8-719-110-39 | DIODE MTZJ-T-77-15A | | | | |
| D803 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D804 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D805 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| D831 | 8-719-510-68 | DIODE D5SBA204101 | | | | |
| D833 | 8-719-200-82 | DIODE 11ES2-NTA1B | | | | |
| D834 | 8-719-200-82 | DIODE 11ES2-NTA1B | | | | |
| D835 | 8-719-200-82 | DIODE 11ES2-NTA1B | | | | |
| D836 | 8-719-200-82 | DIODE 11ES2-NTA1B | | | | |
| D841 | 8-719-975-85 | DIODE 21DQ04N-TA2 | | | | |
| D842 | 8-719-975-85 | DIODE 21DQ04N-TA2 | | | | |
| D843 | 8-719-975-85 | DIODE 21DQ04N-TA2 | | | | |
| D844 | 8-719-975-85 | DIODE 21DQ04N-TA2 | | | | |
| D851 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D852 | 8-719-110-39 | DIODE MTZJ-T-77-15A | | | | |
| D911 | 8-719-982-37 | DIODE MTZJ-T-77-39C | | | | |
| D912 | 8-719-109-89 | DIODE MTZJ-T-77-5.6 | | | | |
| | | < IC > | | | | |
| IC801 | 8-749-017-05 | IC STK412-040 | | | | |
| | | < COIL > | | | | |
| L403 | 1-420-872-00 | COIL, AIR-CORE | | | | |
| L404 | 1-420-872-00 | COIL, AIR-CORE | | | | |
| L405 | 1-420-872-00 | COIL, AIR-CORE | | | | |
| | | < TRANSISTOR > | | | | |
| Q401 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | | | |
| Q402 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q403 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | | | |
| Q404 | 8-729-029-21 | TRANSISTOR | DTA114ESA-TP | | | |
| Q406 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | | | |
| Q407 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | | | |
| Q431 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q432 | 8-729-119-76 | TRANSISTOR | 2SA1115TP-EF | | | |
| Q433 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q434 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q437 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q439 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q801 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q803 | 8-729-140-82 | TRANSISTOR | 2SA988TP-PAFAEA | | | |
| Q804 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q805 | 8-729-231-55 | TRANSISTOR | 2SC2878AB-TPE2 | | | |
| Q831 | 8-729-029-86 | TRANSISTOR | DTC124ESA-TP | | | |
| Q832 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q833 | 8-729-029-40 | TRANSISTOR | DTA124ESA-TP | | | |
| Q834 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q851 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q855 | 8-729-231-55 | TRANSISTOR | 2SC2878AB-TPE2 | | | |
| Q903 | 8-729-141-83 | TRANSISTOR | 2SB1375 | | | |
| Q904 | 8-729-119-76 | TRANSISTOR | 2SA1115TP-EF | | | |
| | | < RESISTOR > | | | | |
| ⚠R401 | 1-216-430-11 | METAL OXIDE | 390 | 5% | 1W | |
| ⚠R402 | 1-216-430-11 | METAL OXIDE | 390 | 5% | 1W | |
| ⚠R403 | 1-216-430-11 | METAL OXIDE | 390 | 5% | 1W | |
| R406 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R407 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R408 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R409 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R416 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R417 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R418 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| R419 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R420 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R421 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R422 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W | |
| R423 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W | |
| R424 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W | |
| R425 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R429 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R430 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R431 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R432 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R434 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R435 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R437 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| ⚠R439 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R440 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R441 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R442 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R443 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R444 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | |
| R446 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R447 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R450 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R801 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R802 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R803 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| R804 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| ⚠R805 | 1-216-436-00 | METAL OXIDE | 3.9K | 5% | 1W | |
| ⚠R806 | 1-216-436-00 | METAL OXIDE | 3.9K | 5% | 1W | |
| ⚠R807 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | |
| ⚠R808 | 1-220-893-11 | METAL | 0.22 | 10% | 5W | |
| R809 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W | |
| R810 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R811 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R812 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R813 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R814 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R815 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R816 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R817 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R818 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R819 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | |
| ⚠R820 | 1-202-972-61 | FUSIBLE | 1 | 5% | 1/4W | |
| R821 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R822 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R823 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R824 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | F |
| ⚠R825 | 1-215-891-11 | METAL OXIDE | 680 | 5% | 2W | |
| R827 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R828 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R831 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R832 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R833 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| R834 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R835 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

# PA PANEL FL

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R836 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R837 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R838 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| ⚠R839 | 1-215-877-11 | METAL OXIDE | 22K | 5% | 1W |
| R840 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W F |
| R851 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R852 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R853 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W F |
| ⚠R855 | 1-215-891-11 | METAL OXIDE | 680 | 5% | 2W |
| ⚠R857 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W |
| ⚠R858 | 1-220-893-11 | METAL | 0.22 | 10% | 5W |
| R859 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W |
| R860 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R861 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R862 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R863 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R868 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R880 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W F |
| ⚠R888 | 1-220-893-11 | METAL | 0.22 | 10% | 5W |
| ⚠R889 | 1-215-877-11 | METAL OXIDE | 22K | 5% | 1W |
| R903 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R904 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R905 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R906 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R907 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R915 | 1-247-791-91 | CARBON | 22 | 5% | 1/4W |
| ⚠R916 | 1-215-915-11 | METAL OXIDE | 470 | 5% | 3W |
| | | < RELAY > | | | |
| RY401 | 1-755-168-11 | RELAY | | | |
| RY402 | 1-515-920-11 | RELAY (24V) | | | |
| RY403 | 1-515-920-11 | RELAY (24V) | | | |
| | | < THERMISTOR > | | | |
| TH831 | 1-807-796-11 | THERMISTOR | | | |
| | | < TERMINAL > | | | |
| TM401 | 1-537-842-11 | TERMINAL BOARD (FRONT SPEAKER) | | | |
| TM402 | 1-537-510-31 | TERMINAL BOARD (SPEAKER) (6P) (REAR SURROUND SPEAKER) | | | |
| ********** | | | | | |
| | A-4428-159-A | PANEL FL BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 4-225-511-01 | HOLDER(FL) | | | |
| * | 4-949-935-81 | CUSHION (FL) | | | |
| | | < CAPACITOR > | | | |
| C601 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C602 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V |
| C603 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C604 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C606 | 1-126-960-11 | ELECT | 1uF | 20.00% | 50V |
| C616 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C617 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V |
| C621 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C622 | 1-162-303-11 | CERAMIC | 0.0033uF | 30.00% | 16V |
| C623 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| C624 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V |
| C625 | 1-126-963-11 | ELECT | 4.7uF | 20.00% | 50V |
| C626 | 1-126-964-11 | ELECT | 10uF | 20.00% | 50V |
| C641 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C642 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C643 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C644 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C645 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C646 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C647 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C648 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C649 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C650 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C651 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C652 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C653 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C654 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C655 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| C656 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V |
| | | < CONNECTOR > | | | |
| CN601 | 1-784-735-11 | CONNECTOR, FFC 13P | | | |
| CN602 | 1-568-838-11 | SOCKET, CONNECTOR 21P | | | |
| | | < DIODE > | | | |
| D601 | 8-719-071-44 | DIODE SELS5223C-TP15 (POWER) | | | |
| D602 | 8-719-058-04 | DIODE SEL5223S-TP15 (DAILLY) | | | |
| D603 | 8-719-058-04 | DIODE SEL5223S-TP15 (REC) | | | |
| D604 | 8-719-058-04 | DIODE SEL5223S-TP15 (SYNC EQ) | | | |
| D605 | 8-719-058-04 | DIODE SEL5223S-TP15 (SYNC BASS) | | | |
| D608 | 8-719-050-84 | DIODE RB441Q-40T-77 | | | |
| D615 | 8-719-058-04 | DIODE SEL5223S-TP15 (KEY CONTROL) | | | |
| D617 | 8-719-058-04 | DIODE SEL5223S-TP15 (SURROUND) | | | |
| | | < FILTER > | | | |
| FL601 | 1-517-940-11 | INDICATOR TUBE, FLUORESCENT | | | |
| | | < IC > | | | |
| IC601 | 8-759-653-43 | IC TMP88CS76F-1A25 | | | |
| IC603 | 8-759-083-77 | IC BA3830F | | | |
| | | < COIL > | | | |
| L601 | 1-410-517-11 | INDUCTOR | 47uH | | |
| L602 | 1-410-517-11 | INDUCTOR | 47uH | | |
| L603 | 1-410-517-11 | INDUCTOR | 47uH | | |
| | | < LINE FILTER > | | | |
| LF601 | 1-424-228-11 | FILTER, NOISE | | | |
| | | < TRANSISTOR > | | | |
| Q601 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | |
| Q602 | 8-729-140-04 | TRANSISTOR | 2SB1116-TP-LK | | |
| Q603 | 8-729-140-04 | TRANSISTOR | 2SB1116-TP-LK | | |
| Q605 | 8-729-029-23 | TRANSISTOR | DTA114TSA-TP | | |
| Q606 | 8-729-029-23 | TRANSISTOR | DTA114TSA-TP | | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| Q607 | 8-729-029-23 | TRANSISTOR | DTA114TSA-TP | | | |
| Q608 | 8-729-047-58 | TRANSISTOR | DTC114TLTL2 | | | |
| Q609 | 8-729-047-58 | TRANSISTOR | DTC114TLTL2 | | | |
| Q610 | 8-729-047-58 | TRANSISTOR | DTC114TLTL2 | | | |
| | | < RESISTOR > | | | | |
| R601 | 1-247-893-11 | CARBON | 390K | 5% | 1/4W | |
| R602 | 1-247-893-11 | CARBON | 390K | 5% | 1/4W | |
| R603 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R604 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R605 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R608 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R609 | 1-247-895-91 | CARBON | 470K | 5% | 1/4W | |
| R611 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R612 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R613 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R614 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R615 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R616 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R617 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R618 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R619 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R620 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R621 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R622 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R623 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W | |
| R624 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R625 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R626 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R627 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R628 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R629 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R630 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R631 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F |
| R632 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R633 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | F |
| R634 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F |
| R642 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| R644 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | F |
| R645 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W | F |
| R646 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R647 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F |
| R648 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R649 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | F |
| R650 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F |
| R652 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R653 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R654 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R655 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R656 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R659 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R660 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R661 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R662 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R665 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R666 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R667 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R680 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R681 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R682 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W | F |
| R683 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R684 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R685 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R686 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F |
| R687 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F |
| R688 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | F |
| R689 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R690 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R691 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R699 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| | | < SWITCH > | | | | |
| S601 | 1-762-875-21 | SWITCH, KEYBOARD (POWER) | | | | |
| S602 | 1-762-875-21 | SWITCH, KEYBOARD (POWER SAVE/DEMO (SYAND BY) | | | | |
| S603 | 1-762-875-21 | SWITCH, KEYBOARD (DISPLAY) | | | | |
| S604 | 1-762-875-21 | SWITCH, KEYBOARD (SPECTRUM ANALYZER) | | | | |
| S612 | 1-762-875-21 | SWITCH, KEYBOARD (FUNCTION) | | | | |
| S614 | 1-762-875-21 | SWITCH, KEYBOARD (SYNC EQ) | | | | |
| S615 | 1-762-875-21 | SWITCH, KEYBOARD (DAIL) | | | | |
| S616 | 1-762-875-21 | SWITCH, KEYBOARD (♭) | | | | |
| S617 | 1-762-875-21 | SWITCH, KEYBOARD (DAIL) | | | | |
| S618 | 1-762-875-21 | SWITCH, KEYBOARD (REC) | | | | |
| S619 | 1-762-875-21 | SWITCH, KEYBOARD (SLEEP) | | | | |
| S620 | 1-762-875-21 | SWITCH, KEYBOARD (CLOCK SET) | | | | |
| S631 | 1-762-875-21 | SWITCH, KEYBOARD (♯) | | | | |
| S632 | 1-762-875-21 | SWITCH, KEYBOARD (MIX GUITAR/KARAOKE) | | | | |
| S635 | 1-762-875-21 | SWITCH, KEYBOARD (SURROUND) | | | | |
| | | < VIBRATOR > | | | | |
| X601 | 1-781-312-11 | VIBRATOR, CERAMIC 12.5MHz | | | | |
| ********** | | | | | | |
| | A-4428-144-A | PANEL VR BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C701 | 1-162-600-11 | CERAMIC | 0.0047uF | 30.00% | 16V | |
| C702 | 1-162-301-11 | CERAMIC | 0.0015uF | 30.00% | 16V | |
| C703 | 1-162-302-11 | CERAMIC | 0.0022uF | 30.00% | 16V | |
| C704 | 1-104-664-11 | ELECT | 47uF | 20.00% | 16V | |
| C708 | 1-104-665-11 | ELECT | 100uF | 20.00% | 10V | |
| C709 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C710 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V | |
| C711 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V | |
| | | < CONNECTOR > | | | | |
| * CN701 | 1-568-864-11 | SOCKET, CONNECTOR 21P | | | | |
| | | < DIODE > | | | | |
| D606 | 8-719-058-03 | DIODE SEL5423E-TP15 (TUNER/BAND) | | | | |
| D607 | 8-719-058-04 | DIODE SEL5223S-TP15 (ENTER/NEXT) | | | | |
| D611 | 8-719-058-04 | DIODE SEL5223S-TP15 (GROOVE) | | | | |
| D612 | 8-719-058-04 | DIODE SEL5223S-TP15 (SUPER WOOFER) | | | | |
| D613 | 8-719-057-97 | DIODE SEL5923A-TP15 (PRO LOGIC) | | | | |

# PANEL VR | TRANS

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| D614 | 8-719-057-97 | DIODE SEL5923A-TP15 (DVD 5.1CH) | | | | |
| D616 | 8-719-058-04 | DIODE SEL5223S-TP15 (ENTER) | | | | |
| D618 | 8-719-058-04 | DIODE SEL5223S-TP15 (EFFECT) | | | | |
| D619 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (MENU 2) | | | | |
| D620 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (MENU 1) | | | | |
| D621 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (P.FILE) | | | | |
| D623 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (FILE 5) | | | | |
| D624 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (FILE 4) | | | | |
| D625 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (FILE 3) | | | | |
| D626 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (FILE 2) | | | | |
| D627 | 8-719-301-60 | DIODE SEL2910A-C-TP2 (FILE 1) | | | | |
| D698 | 8-719-057-97 | DIODE SEL5923A-TP15 (PRO LOGIC) | | | | |
| D699 | 8-719-057-97 | DIODE SEL5923A-TP15 (DVD 5.1CH) | | | | |
| | | < IC > | | | | |
| IC701 | 8-759-567-59 | IC NJU3716L | | | | |
| IC702 | 8-759-459-86 | IC NJL64H400A | | | | |
| | | < COIL > | | | | |
| L704 | 1-410-509-11 | INDUCTOR | 10uH | | | |
| | | < RESISTOR > | | | | |
| R724 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | F |
| R725 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R726 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R727 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | F |
| R728 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R729 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R730 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R731 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W | |
| R732 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W | |
| R733 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R734 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R735 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R736 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R737 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R738 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R739 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R740 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R741 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R742 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R743 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R744 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | F |
| R750 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R751 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R761 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R762 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | F |
| R763 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F |
| R764 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| R765 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R766 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | F |
| R767 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R768 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R769 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | F |
| R772 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W | F |
| R773 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | F |
| R775 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R776 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R777 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R778 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R779 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | F |
| R780 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | F |
| R782 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R784 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R785 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R786 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R787 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R789 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R790 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R791 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R792 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R793 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | F |
| R794 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R795 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| | | < VARIABLE RESISTOR > | | | | |
| RV750 | 1-225-739-11 | RES, VAR CARBON 50K (MIC LEVEL) | | | | |
| RV751 | 1-225-739-11 | RES, VAR CARBON 50K (GUITAR LEVEL) | | | | |
| | | < SWITCH > | | | | |
| S606 | 1-762-875-21 | SWITCH, KEYBOARD (TUNING MODE) | | | | |
| S607 | 1-762-875-21 | SWITCH, KEYBOARD (STEREO/MONO) | | | | |
| S608 | 1-762-875-21 | SWITCH, KEYBOARD (ENTER/NEXT) | | | | |
| S609 | 1-762-875-21 | SWITCH, KEYBOARD (TUNER/BAND) | | | | |
| S610 | 1-762-875-21 | SWITCH, KEYBOARD (TUNING +) | | | | |
| S611 | 1-762-875-21 | SWITCH, KEYBOARD (TUNING -) | | | | |
| S613 | 1-762-875-21 | SWITCH, KEYBOARD (TUNER MEMORY) | | | | |
| S621 | 1-762-875-21 | SWITCH, KEYBOARD (DOWN) | | | | |
| S622 | 1-762-875-21 | SWITCH, KEYBOARD (RIGHT) | | | | |
| S623 | 1-762-875-21 | SWITCH, KEYBOARD (UP) | | | | |
| S624 | 1-762-875-21 | SWITCH, KEYBOARD (LEFT) | | | | |
| S626 | 1-762-875-21 | SWITCH, KEYBOARD (GROOVE) | | | | |
| S627 | 1-762-875-21 | SWITCH, KEYBOARD (SUPER WOOFER) | | | | |
| S628 | 1-762-875-21 | SWITCH, KEYBOARD (SUPER WOOFER MODE) | | | | |
| S629 | 1-762-875-21 | SWITCH, KEYBOARD (PRO LOGIC) | | | | |
| S630 | 1-762-875-21 | SWITCH, KEYBOARD (DVD 5.1CH) | | | | |
| S633 | 1-762-875-21 | SWITCH, KEYBOARD (ENTER) | | | | |
| S634 | 1-762-875-21 | SWITCH, KEYBOARD (GEQ CTRL) | | | | |
| S636 | 1-762-875-21 | SWITCH, KEYBOARD (EFFECT) | | | | |
| S637 | 1-762-875-21 | SWITCH, KEYBOARD (P FILE MEMORY) | | | | |
| S701 | 1-473-392-11 | ENCODER, ROTARY (VOLUME) | | | | |
| ********** | | | | | | |
| | 1-676-267-11 | TRANS BOARD | | | | |
| | | ********** | | | | |
| | 1-533-233-11 | HOLDER, FUSE | | | | |
| | 7-685-646-79 | SCREW+BVTP | 3X8 | | TYPE2 N-S | |
| | | < CAPACITOR > | | | | |
| C834 | 1-130-777-00 | MYLAR | 0.1uF | 10.00% | 100V | |
| C893 | 1-130-777-00 | MYLAR | 0.1uF | 10.00% | 100V | |
| C961 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V | |
| C963 | 1-162-306-11 | CERAMIC | 0.01uF | 30.00% | 16V | |

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| | | < CONNECTOR > | | | | |
| CN905 | 1-564-321-00 | PIN, CONNECTOR 2P | | | | |
| * CN951 | 1-564-214-11 | PIN, CONNECTOR (B3PS-VH) 3P | | | | |
| * CN952 | 1-564-526-11 | PLUG, CONNECTOR 11P | | | | |
| | | < DIODE > | | | | |
| D832 | 8-719-510-68 | DIODE D5SBA204101 | | | | |
| | | < FUSE > | | | | |
| ⚠F951 | 1-532-505-31 | FUSE 5A/250V (EA) | | | | |
| ⚠F951 | 1-532-506-31 | FUSE 6.3A/250V(IA,MY,SP) | | | | |
| ⚠F961 | 1-532-506-31 | FUSE 6.3A/250V(EA) | | | | |
| ⚠F961 | 1-533-949-31 | FUSE, CYLINDRICAL (TIME LUG) 8A/250V | | | | (IA,MY,SP) |
| ⚠F962 | 1-532-506-31 | FUSE 6.3A/250V(EA) | | | | |
| ⚠F962 | 1-533-949-31 | FUSE, CYLINDRICAL (TIME LUG) 8A/250V | | | | (IA,MY,SP) |
| ⚠F963 | 1-532-506-31 | FUSE 6.3A/250V | | | | |
| ⚠F964 | 1-532-506-31 | FUSE 6.3A/250V | | | | |
| | | < RESISTOR > | | | | |
| ⚠R951 | 1-219-122-91 | FUSIBLE | 0.33 | 5% | 1/4W | |
| ⚠R952 | 1-219-122-91 | FUSIBLE | 0.33 | 5% | 1/4W | |
| ⚠R953 | 1-219-119-81 | FUSIBLE | 0.1 | 5% | 1/4W | |
| | | < CRT > | | | | |
| ⚠S901 | 1-771-291-11 | SWITCH, POWER | | | | |
| ********** | | | | | | |
| | A-4428-132-A | SURROUND AMP BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| | | < CAPACITOR > | | | | |
| C101 | 1-128-582-11 | ELECT | 10uF | 20.00% | 100V | |
| C102 | 1-162-292-31 | CERAMIC | 680PF | 10% | 50V | |
| C103 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V | |
| C104 | 1-126-967-11 | ELECT | 47uF | 20.00% | 50V | |
| C105 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V | |
| C106 | 1-136-165-00 | MYLAR | 0.1uF | 5.00% | 50V | |
| C107 | 1-128-560-11 | ELECT | 22uF | 20.00% | 100V | |
| C108 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V | |
| C109 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V | |
| C113 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | | |
| C114 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V | |
| C151 | 1-128-582-11 | ELECT | 10uF | 20.00% | 100V | |
| C152 | 1-162-292-31 | CERAMIC | 680PF | 10% | 50V | |
| C153 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V | |
| C154 | 1-126-967-11 | ELECT | 47uF | 20.00% | 50V | |
| C157 | 1-128-560-11 | ELECT | 22uF | 20.00% | 100V | |
| C158 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V | |
| C159 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V | |
| C181 | 1-128-582-11 | ELECT | 10uF | 20.00% | 100V | |
| C182 | 1-162-292-31 | CERAMIC | 680PF | 10% | 50V | |
| C183 | 1-162-286-21 | CERAMIC | 220PF | 10.00% | 50V | |
| C184 | 1-126-967-11 | ELECT | 47uF | 20.00% | 50V | |
| C188 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V | |
| C189 | 1-136-495-11 | MYLAR | 0.068uF | 5.00% | 50V | |

| Ref. No. | Part No. | Description | | | | Remarks |
|---|---|---|---|---|---|---|
| | | < CONNECTOR > | | | | |
| CN101 | 1-691-772-11 | PLUG (MICRO CONNECTOR) 10P | | | | |
| | | < DIODE > | | | | |
| D101 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D151 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| D191 | 8-719-991-33 | DIODE 1SS133T-77 | | | | |
| | | < IC > | | | | |
| IC101 | 8-749-017-19 | IC STK443-050 | | | | |
| | | < TRANSISTOR > | | | | |
| Q101 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q103 | 8-729-140-82 | TRANSISTOR | 2SA988TP-PAFAEA | | | |
| Q104 | 8-729-620-05 | TRANSISTOR | 2SC2603TP-EF | | | |
| Q151 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| Q181 | 8-729-140-84 | TRANSISTOR | 2SC1841TP-PAFAEA | | | |
| | | < RESISTOR > | | | | |
| R101 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R102 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R103 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| ⚠R107 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | |
| ⚠R108 | 1-220-755-11 | METAL | 0.22 | 10% | 2W | |
| R109 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W | |
| R110 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R111 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R112 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R113 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R114 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R115 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R116 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R117 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R119 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | |
| ⚠R120 | 1-217-637-00 | FUSIBLE | 1 | 5% | 1/4W | |
| R121 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| ⚠R128 | 1-220-755-11 | METAL | 0.22 | 10% | 2W | |
| R130 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| ⚠R138 | 1-220-755-11 | METAL | 0.22 | 10% | 2W | |
| R151 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R152 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R153 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | F |
| ⚠R157 | 1-212-881-11 | FUSIBLE | 100 | 5% | 1/4W | |
| ⚠R158 | 1-220-755-11 | METAL | 0.22 | 10% | 2W | |
| R159 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W | |
| R160 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R161 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R162 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R163 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| ⚠R168 | 1-220-755-11 | METAL | 0.22 | 10% | 2W | |
| R181 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R182 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R183 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| ⚠R188 | 1-220-755-11 | METAL | 0.22 | 10% | 2W | |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R189 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W |
| R190 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R191 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R192 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R193 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| ********** | | | | | |
| * | 1-659-058-13 | TABLE SENSOR BOARD | | | |
| | | ********** | | | |
| | | < IC > | | | |
| IC202 | 8-749-924-18 | PHOTO INTERRUPTER RPI-1391 | | | |
| | | < RESISTOR > | | | |
| R207 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W F |
| ********** | | | | | |
| | 1-676-274-11 | TC-A BOARD | | | |
| | | ********** | | | |
| | | < DIODE > | | | |
| D631 | 8-719-058-03 | DIODE SEL5423E-TP15 (REV) | | | |
| D632 | 8-719-058-03 | DIODE SEL5423E-TP15 (FWD) | | | |
| | | < RESISTOR > | | | |
| R700 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W F |
| R701 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R702 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W F |
| R703 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W F |
| R704 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W F |
| R705 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R706 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W F |
| R707 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| R708 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| | | < SWITCH > | | | |
| S641 | 1-762-875-21 | SWITCH, KEYBOARD (REV) | | | |
| S642 | 1-762-875-21 | SWITCH, KEYBOARD (FWD) | | | |
| S643 | 1-762-875-21 | SWITCH, KEYBOARD (STOP) | | | |
| S644 | 1-762-875-21 | SWITCH, KEYBOARD (AMS) | | | |
| S645 | 1-762-875-21 | SWITCH, KEYBOARD (AMS) | | | |
| S646 | 1-762-875-21 | SWITCH, KEYBOARD (DOLBY NR) | | | |
| S647 | 1-762-875-21 | SWITCH, KEYBOARD (DIRECTION) | | | |
| ********** | | | | | |
| | 1-676-275-11 | TC-B BOARD | | | |
| | | ********** | | | |
| | | < DIODE > | | | |
| D635 | 8-719-058-03 | DIODE SEL5423E-TP15 (REV) | | | |
| D636 | 8-719-058-03 | DIODE SEL5423E-TP15 (FWD) | | | |
| D637 | 8-719-057-97 | DIODE SEL5923A-TP15 (PAUSE) | | | |
| D638 | 8-719-058-04 | DIODE SEL5223S-TP15 (REC) | | | |
| | | < RESISTOR > | | | |
| R711 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W F |
| R712 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R713 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W F |
| R714 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W F |
| R715 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W F |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R716 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R717 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W F |
| R718 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W F |
| R719 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W F |
| R720 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| R721 | 1-247-804-11 | CARBON | 75 | 5% | 1/4W |
| R722 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R723 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W F |
| | | < SWITCH > | | | |
| S651 | 1-762-875-21 | SWITCH, KEYBOARD (REV) | | | |
| S652 | 1-762-875-21 | SWITCH, KEYBOARD (FWD) | | | |
| S653 | 1-762-875-21 | SWITCH, KEYBOARD (STOP) | | | |
| S654 | 1-762-875-21 | SWITCH, KEYBOARD (AMS) | | | |
| S655 | 1-762-875-21 | SWITCH, KEYBOARD (AMS) | | | |
| S656 | 1-762-875-21 | SWITCH, KEYBOARD (PAUSE) | | | |
| S657 | 1-762-875-21 | SWITCH, KEYBOARD (REC) | | | |
| S658 | 1-762-875-21 | SWITCH, KEYBOARD (H SPEED DUB) | | | |
| S659 | 1-762-875-21 | SWITCH, KEYBOARD (CD SYNC) | | | |
| ********** | | | | | |
| | A-4724-882-A | VIDEO BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-124-778-00 | ELECT CHIP | 22uF | 20% | 6.3V |
| C102 | 1-163-143-00 | CERAMIC CHIP | 0.0012uF | 5% | 50V |
| C103 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C104 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C201 | 1-124-778-00 | ELECT CHIP | 22uF | 20% | 6.3V |
| C202 | 1-163-143-00 | CERAMIC CHIP | 0.0012uF | 5% | 50V |
| C203 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C301 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C302 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C303 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C304 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C305 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5.00% | 50V |
| C306 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5.00% | 50V |
| C310 | 1-163-137-00 | CERAMIC CHIP | 680PF | 5% | 50V |
| C311 | 1-216-295-91 | SHORT | 0 | | |
| C313 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C314 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C318 | 1-124-778-00 | ELECT CHIP | 22uF | 20% | 6.3V |
| C319 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C401 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C402 | 1-124-778-00 | ELECT CHIP | 22uF | 20% | 6.3V |
| C403 | 1-124-778-00 | ELECT CHIP | 22uF | 20% | 6.3V |
| C404 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C405 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C406 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C409 | 1-126-603-11 | ELECT CHIP | 4.7uF | 20% | 35V |
| C410 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C411 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C412 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C413 | 1-126-601-11 | ELECT CHIP | 2.2uF | 20% | 50V |
| C452 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C501 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C502 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C503 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5.00% | 50V |
| C504 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| C505 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C506 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C507 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C509 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5.00% | 50V |
| C510 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C531 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C532 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C535 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C536 | 1-126-193-11 | ELECT | 1uF | 20% | 50V |
| C537 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C539 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C540 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C541 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C542 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C543 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C544 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C545 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C546 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C547 | 1-126-193-11 | ELECT | 1uF | 20% | 50V |
| C548 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C549 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C550 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C551 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C552 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C553 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C555 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16V |
| C556 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C559 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C560 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C561 | 1-163-233-11 | CERAMIC CHIP | 18PF | 5.00% | 50V |
| C562 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C563 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C564 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C565 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C566 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C568 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C569 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C570 | 1-126-206-11 | ELECT CHIP | 100uF | 20% | 6.3V |
| C573 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C574 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C576 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| C577 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5.00% | 50V |
| | | < CONNECTOR > | | | |
| * CN301 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| CN501 | 1-770-706-11 | CONNECTOR, FFC/FPC 23P | | | |
| CN503 | 1-779-416-11 | CONNECTOR,FFC(LIF(NON-ZIF))13P | | | |
| | | < TRIMMER > | | | |
| CT503 | 1-141-539-11 | CAP, ADJ 10PF | | | |
| | | < DIODE > | | | |
| D301 | 8-719-054-23 | DIODE RB706D-40-T146 | | | |
| D501 | 8-719-422-12 | DIODE UDZ-TE-17-3.9B | | | |
| D502 | 8-719-018-51 | DIODE CL-170R-CD-T (SELF DIAGNOSIS) | | | |

| Ref. No. | Part No. | Description | | Remarks |
|---|---|---|---|---|
| | | <IC > | | |
| IC101 | 8-759-701-40 | IC NJM2100M(TE2) | | |
| IC401 | 8-759-177-02 | IC NJM2267M(TE2) | | |
| IC501 | 8-759-269-92 | IC SN74HCU04ANSR | | |
| IC502 | 8-759-672-41 | IC M30620MC-A17FP | | |
| IC504 | 8-759-269-92 | IC SN74HCU04ANSR | | |
| IC505 | 8-759-535-48 | IC CL680T-D1 | | |
| IC506 | 8-759-573-23 | IC LC372100PM-J48-TLA | | |
| IC507 | 8-759-342-01 | IC MSM514260C-60JS | | |
| IC509 | 8-759-535-62 | IC PCM1727E-2/T2 | | |
| | | < JACK > | | |
| J301 | 1-537-943-11 | TERMINAL, S (S VIDEO OUT) | | |
| | | < JUMPER RESISTOR > | | |
| JW101 | 1-216-295-91 | SHORT | 0 | |
| JW201 | 1-216-295-91 | SHORT | 0 | |
| JW401 | 1-216-295-91 | SHORT | 0 | |
| JW402 | 1-216-295-91 | SHORT | 0 | |
| JW403 | 1-216-295-91 | SHORT | 0 | |
| JW404 | 1-216-295-91 | SHORT | 0 | |
| JW405 | 1-216-295-91 | SHORT | 0 | |
| JW413 | 1-216-295-91 | SHORT | 0 | |
| JW421 | 1-216-295-91 | SHORT | 0 | |
| JW422 | 1-216-295-91 | SHORT | 0 | |
| JW502 | 1-216-295-91 | SHORT | 0 | |
| JW503 | 1-216-295-91 | SHORT | 0 | |
| JW504 | 1-216-295-91 | SHORT | 0 | |
| JW505 | 1-216-295-91 | SHORT | 0 | |
| | | < COIL > | | |
| L301 | 1-410-372-21 | INDUCTOR CHIP | 1.8uH | |
| L302 | 1-410-372-21 | INDUCTOR CHIP | 1.8uH | |
| L501 | 1-216-296-91 | SHORT | 0 | |
| L502 | 1-216-296-91 | SHORT | 0 | |
| L503 | 1-216-296-91 | SHORT | 0 | |
| L504 | 1-410-375-11 | INDUCTOR CHIP | 3.3uH | |
| L505 | 1-216-296-91 | SHORT | 0 | |
| L506 | 1-216-296-91 | SHORT | 0 | |
| L507 | 1-216-296-91 | SHORT | 0 | |
| L508 | 1-216-296-91 | SHORT | 0 | |
| L509 | 1-216-296-91 | SHORT | 0 | |
| L510 | 1-216-296-91 | SHORT | 0 | |
| | | < TRANSISTOR > | | |
| Q301 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q302 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q303 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q304 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q306 | 8-729-027-44 | TRANSISTOR | DTC114TKA-T146 | |
| Q307 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q308 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q310 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q453 | 8-729-026-50 | TRANSISTOR | 2SA1037K-T-146-QR | |
| Q454 | 8-729-026-50 | TRANSISTOR | 2SA1037K-T-146-QR | |
| Q502 | 8-729-024-91 | TRANSISTOR | 2SC2712-GL-TE85L | |
| Q531 | 8-729-140-75 | TRANSISTOR | 2SD999-T1-CLCK | |

# VIDEO

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| | | < RESISTOR > | | | |
| R101 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R102 | 1-208-441-61 | RES-CHIP | 1.5K | 2% | 1/10W |
| R103 | 1-208-441-61 | RES-CHIP | 1.5K | 2% | 1/10W |
| R105 | 1-216-295-91 | SHORT | 0 | | |
| R201 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R202 | 1-208-441-61 | RES-CHIP | 1.5K | 2% | 1/10W |
| R203 | 1-208-441-61 | RES-CHIP | 1.5K | 2% | 1/10W |
| R205 | 1-216-295-91 | SHORT | 0 | | |
| R301 | 1-216-624-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R302 | 1-216-624-11 | METAL CHIP | 75 | 0.5% | 1/10W |
| R305 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R306 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R307 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R308 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R309 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R312 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R313 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R314 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R315 | 1-216-047-91 | RES-CHIP | 820 | 5% | 1/10W |
| R316 | 1-216-651-11 | METAL CHIP | 1K | 0.5% | 1/10W |
| R317 | 1-216-669-11 | METAL CHIP | 5.6K | 0.5% | 1/10W |
| R318 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R319 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R320 | 1-216-643-11 | METAL CHIP | 470 | 0.5% | 1/10W |
| R321 | 1-216-031-00 | METAL CHIP | 180 | 5% | 1/10W |
| R324 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R325 | 1-216-295-91 | SHORT | 0 | | |
| R327 | 1-216-031-00 | METAL CHIP | 180 | 5% | 1/10W |
| R328 | 1-216-649-11 | METAL CHIP | 820 | 0.5% | 1/10W |
| R329 | 1-216-643-11 | METAL CHIP | 470 | 0.5% | 1/10W |
| R332 | 1-216-645-11 | METAL CHIP | 560 | 0.5% | 1/10W |
| R333 | 1-216-031-00 | METAL CHIP | 180 | 5% | 1/10W |
| R335 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R336 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R340 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R341 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R342 | 1-216-022-00 | METAL CHIP | 75 | 5% | 1/10W |
| R403 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R404 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R405 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R406 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R411 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R412 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R414 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R415 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R423 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R424 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R425 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R426 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R457 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R458 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R459 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R461 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R462 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R463 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R464 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R501 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R502 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R503 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R504 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R505 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R506 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R507 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R508 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R509 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R510 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R511 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R512 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R513 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R514 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R516 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R517 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R518 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R519 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R520 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R523 | 1-216-013-00 | METAL CHIP | 33 | 5% | 1/10W |
| R530 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R531 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R532 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R533 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R534 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R535 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R536 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R537 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R538 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R542 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R543 | 1-216-685-11 | METAL CHIP | 27K | 0.5% | 1/10W |
| R544 | 1-216-659-11 | METAL CHIP | 2.2K | 0.5% | 1/10W |
| R545 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R546 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R547 | 1-216-295-91 | SHORT | 0 | | |
| R548 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R549 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R550 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R551 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R552 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R554 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R555 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W |
| R556 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R557 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R558 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R559 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R560 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R561 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W |
| R562 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R563 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R564 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R565 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R566 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R567 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R568 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R569 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R572 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R573 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R574 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remarks |
|---|---|---|---|---|---|
| R577 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R578 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R579 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R580 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| | | < SWITCH > | | | |
| S501 | 1-571-395-11 | SWITCH, SLIDE (SYSTEM SELECT) | | | |
| | | < VIBRATOR > | | | |
| X501 | 1-767-510-11 | VIBRATOR, CERAMIC 10MHz | | | |
| X503 | 1-767-519-11 | VIBRATOR, CRYSTAL 27MHz | | | |

**********

MISCELLANEOUS
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| | | |
|---|---|---|
| 3 | 1-693-488-11 | TUNER(FM/AM) |
| 5 | 1-769-977-11 | WIRE(FLAT TYPE) (13 CORE) |
| 72 | 1-773-056-11 | WIRE(FLAT TYPE) (17 CORE) |
| 73 | 1-773-032-11 | WIRE(FLAT TYPE) (15 CORE) |
| 117 | 1-751-688-11 | WIRE (FLAT TYPE) (13 CORE) |
| 119 | 1-773-150-11 | WIRE (FLAT TYPE) (21 CORE) |

| Ref. No. | Part No. | Description | Remarks |
|---|---|---|---|
| ⚠156 | 1-569-008-21 | ADAPTOR, CONVERSION 2P | |
| ⚠157 | 1-777-071-51 | CORD, POWER | |
| 161 | 1-790-660-11 | WIRE (FLAT TYPE) (23 CORE) | |
| 162 | 1-790-288-11 | WIRE (FLAT TYPE) (13 CORE) | |
| 507 | 1-452-925-21 | MAGNET ASSY | |
| ⚠601 | 8-820-020-02 | DEVICE, OPTICAL KSS-213D/Q-NP | |
| 602 | 1-769-069-11 | WIRE (FLAT TYPE) (16 CORE) | |
| M901 | 1-763-072-11 | FAN, D.C. | |
| ⚠T951 | 1-435-249-11 | TRANSFORMER, POWER | |

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**********
HARDWARE LIST
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| | | |
|---|---|---|
| #1 | 7-685-871-01 | SCREW +BVTT 3X6 (S) |
| #2 | 7-685-872-09 | SCREW +BVTT 3X8 (S) |
| #3 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |
| #4 | 7-685-650-79 | SCREW +BVTP 3X16 TYPE2 IT-3 |
| #5 | 7-685-881-09 | SCREW +BVTT 4X8 (S) |
| #11 | 7-685-781-09 | SCREW +PTT 2X4 (S) |
| #12 | 7-623-921-01 | RING, RETAINING, CAPSTAN |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-929-233-11

**Sony Corporation**
**Home Audio Division Company**

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